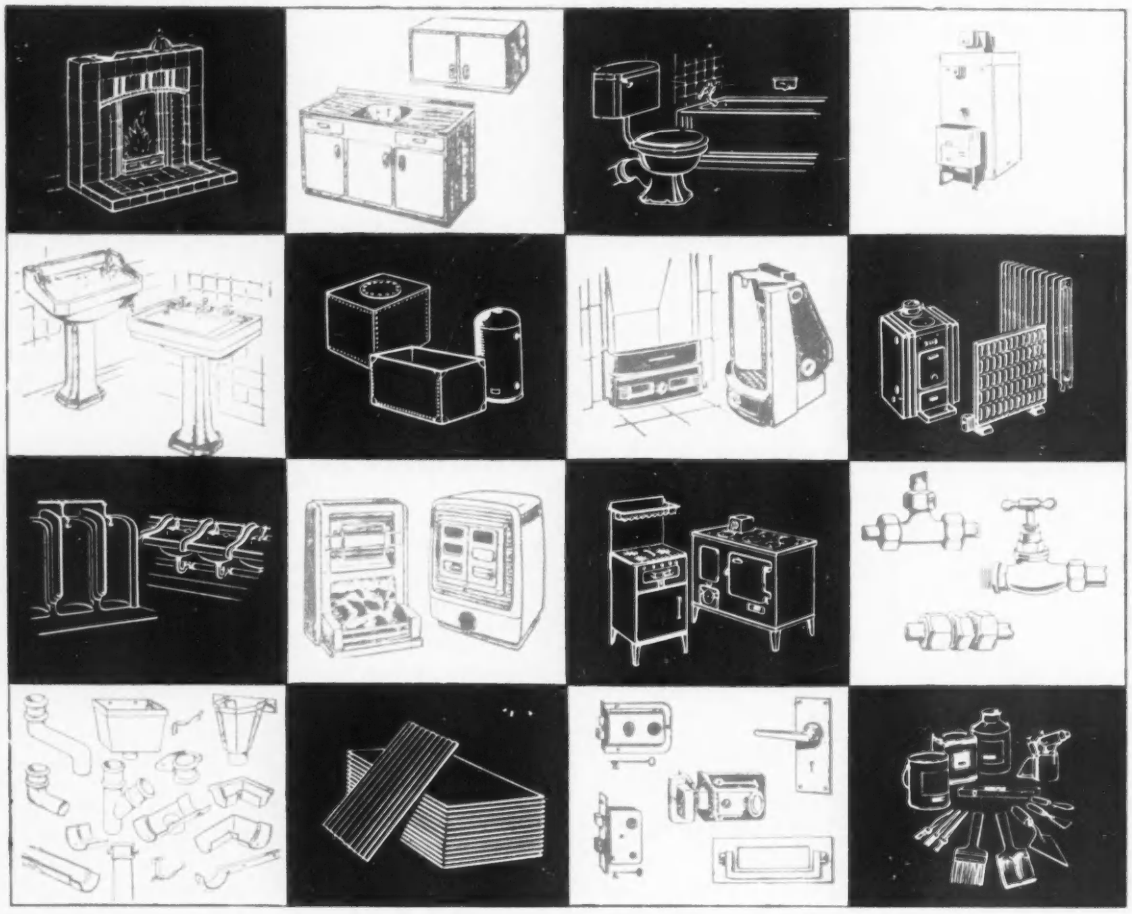
The Builder

A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6110 118TH YEAR. FRIDAY, JUNE 24, 1960. Price 1/6

MANUFACTURERS OF METAL PRODUCTS FOR THE BUILDING INDUSTRY

HARDWARE BUILDING MATERIALS



Our stock in trade is *Quick Delivery*

Stockholders & Distributors of

Sanitaryware • heating stoves • radiators • boilers • ranges • cookers • fireplaces • castings • steelwork • fencing • gutters and pipes • bolts, nails and screws • wallboards • architectural and builders' ironmongery • asbestos goods • glass • decorators' materials • tanks • cylinders and cisterns • plumbers' brass foundry • lead • tubes and fittings • wall and floor tiles • doors and gates • engineers' and contractors' tools

Standard
ESTABLISHED 1870

CREDIT SALES FACILITIES

Sanitaryware, Kitchen Equipment, Fireplaces, Boilers and Heating Appliances may now be secured under our

CREDIT SALE PLAN
in which the
COST OF INSTALLATION may be INCLUDED

This special facility ensures prompt payment of the Builder's or Plumber's Account consequent upon completion of installations undertaken for Private Householders.

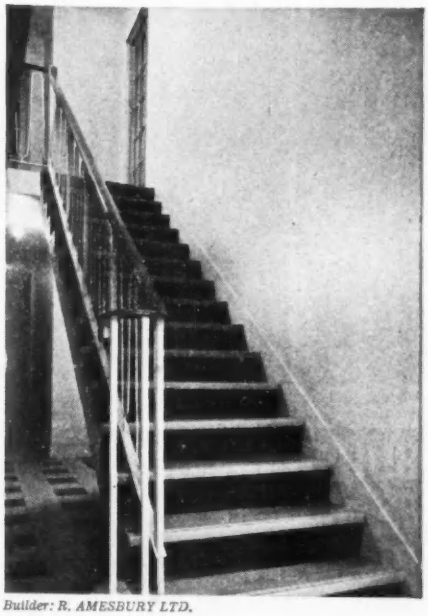
Full particulars upon application

STANDARD RANGE & FOUNDRY CO. LTD.

WATFORD, HERTS. Telephone: WATFORD 26484 (12 LINES). Telegrams: STANDARD, WATFORD

London Sales Office: MANFIELD HOUSE, SOUTHAMPTON ST., 376 STRAND, LONDON, W.C.2. *Tel.: COVent Garden 1422-3*

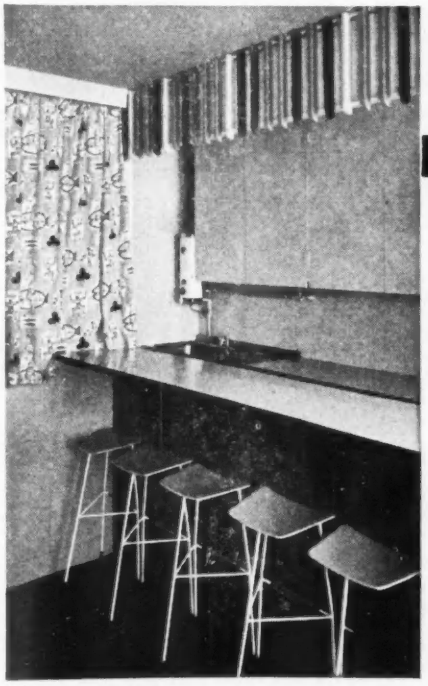
Telegrams: ESAREFCO, RAND, LONDON



Builder: R. AMESBURY LTD.

One coat multicoloured finish

The illustrations show typical applications of Tretol Multicolour.



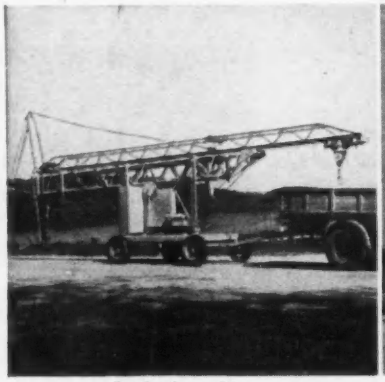
Architects and property managements everywhere have discovered that TRETOL MULTICOLOUR is the ideal decorative medium where colourful emphasis must combine with exceptional durability and ease of maintenance —on the "busiest" walls of hotels, schools, offices, stores, hospitals, public and residential buildings.
Only normal techniques and equipment are required to spray two **or more** colours on one surface simultaneously. When different surfaces adjoin, TRETOL MULTICOLOUR will disguise and unify them by reason of its colour texture and generous film build.
Send for descriptive folder from TRETOL LTD., TRETOL HOUSE, THE HYDE, N.W.9. Telephone: Colindale 7223

TRETOL MULTICOLOUR

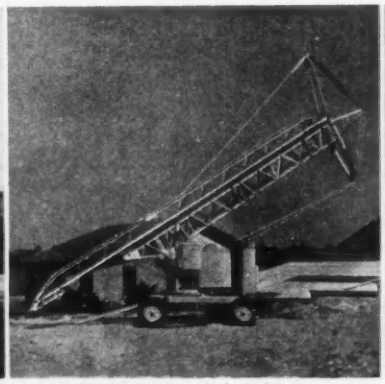
Regd. Trademark

—the answer to the architect's search for a modern coating as new as his ideas.

A



Arrival on site . . .



"Mast & Jib" unit is raised . . .

reaches a vertical position . . .

SLASH YOUR BUILDING COSTS . . . with the AMAZING 205T "RECORD" TOWER CRANE

JUST LOOK AT THESE STAR FEATURES

- ★ LOW COST
- ★ FULLY MOBILE
- ★ SELF ERECTING (up in 10 mins.)
- ★ REMOTE CONTROLLED
- ★ THREE SAFETY DEVICES
- ★ IMMEDIATE DELIVERY
- ★ FULL STOCK OF SPARES

MAX. S.W.L. (UP TO 27 FEET RADIUS)	10 CWT.
S.W.L. AT MAXIMUM RADIUS (34 FEET)	8 CWT.
HEIGHT UNDER HOOK: SADDLE JIB	41 FEET
" " " : RAISED 45°	59 FEET
" " " : RAISED 60°	66 FEET
HOISTING SPEED	100 FEET/MIN
TRAVERSING SPEED	82 FEET/MIN
SLEWING SPEED	1 REV. PER MIN.

YOU CANNOT AFFORD TO BE WITHOUT ONE

CRANES OF LARGER CAPACITY ALSO AVAILABLE

For further details Telephone ELGar 1441 or write to MAIN U.K. DISTRIBUTORS

DELTA (PLANT) LTD. 10, CORONATION ROAD, PARK ROYAL · LONDON · N·W·10.

the inner mast begins to telescope . . .

the jib swings out . . .

and your 205 is now ready for work!

RECORD TOWER CRANES

THE CRANES 10 YEARS AHEAD . . . F. POTAIN & CO. (FRANCE)

MAXIMUM
SILICONE
CONTENT

Brickwork needs waterproofing too!

EVOSIL

COLOURLESS EXTERIOR WATERPROOFER

The PROVED silicone based waterproofer that repels all moisture from exterior brickwork, stone, concrete and asbestos cement

A PRODUCT OF EVODE OF STAFFORD

ROOF WATERPROOFING · CONCRETE ADMIXTURES AND HARDENERS · PROTECTIVE PAINTS AND BITUMINOUS COATINGS · GAP AND JOINT SEALING MASTICS AND GUNS · INDUSTRIAL ADHESIVES

✳ **SEND FOR LITERATURE** EVODE LTD., (BUILDING CHEMICALS DIVISION) STAFFORD. Phone : 2241 (5 lines)
London Office : 82 VICTORIA STREET, S.W.1. Telephone : ABBey 4622 (3 lines)

M-W.186

Your shield against FIRE

* Available in white and a range of pastel colours to suit requirements.
* Can be sponged down after fixing to give clean, finished decoration.
* Made to the highest standards in the world's latest fibre board mill.
* "Trerock" flame-retardant coated—particularly designed to meet the requirements of the "Thermal Insulation (Industrial Buildings) Act, 1957". Rates, Class 1—Surface Spread of Flame Test—B.S.476/53.

SIZES AND THICKNESSES			
	THICKNESS	WIDTH	LENGTH
STANDARD	½" ¾" 1"	2 and 4 ft. 4 ft. 4 ft.	4, 6 and 8 ft. 6 and 8 ft. 8 ft.
BEVELLED PANELS	½" and ¾" ½" and ¾" ½" and ¾"	4 ft. 4 ft. 2 ft.	4 ft. 2 ft. 2 ft.
Other sizes supplied on request Kraft paper wrapped in bundles			

PD FLAME RETARDANT INSULATING BOARD

POWELL DUFFRYN TIMBER INDUSTRIES LIMITED

QUEENSFERRY, CHESTER Telephone: HAWARDEN 2001-4

BRITISH THROUGH AND THROUGH

THE MODERN WAY

Architect: S. P. Youldon, M.C., F.R.I.C.S., M.I.Mun.E., L.R.I.B.A. Chartered Municipal Engineer and Registered Architect.

BEECH HOUSE FLATS, HOLLY BUSH ESTATE, WHITCHURCH, GLAM.

Contractors: L. J. Hope, Ltd., Cardiff. Cardiff Rural District Council.

Here is a good example of flat construction. The clean lines, ample window space and balconies for open air living follow the modern style.

LIKEWISE THE CONTRACTORS FOLLOWED THE MODERN TREND BY USING FEBMIX DEHYDRATED MORTAR PLASTICISER IN BOTH THE BRICKLAYING AND PLASTERING MORTARS.

Using only half an ounce of **FEBMIX DEHYDRATED** Mortar Plasticiser per cwt. of cement in a mortar mix of 1 cement to 6 sand produced a mortar having good strength, a high degree of plasticity and maximum durability at a cost well below that of any other type of mortar mix.

FEBMIX DEHYDRATED
MORTAR PLASTICISER

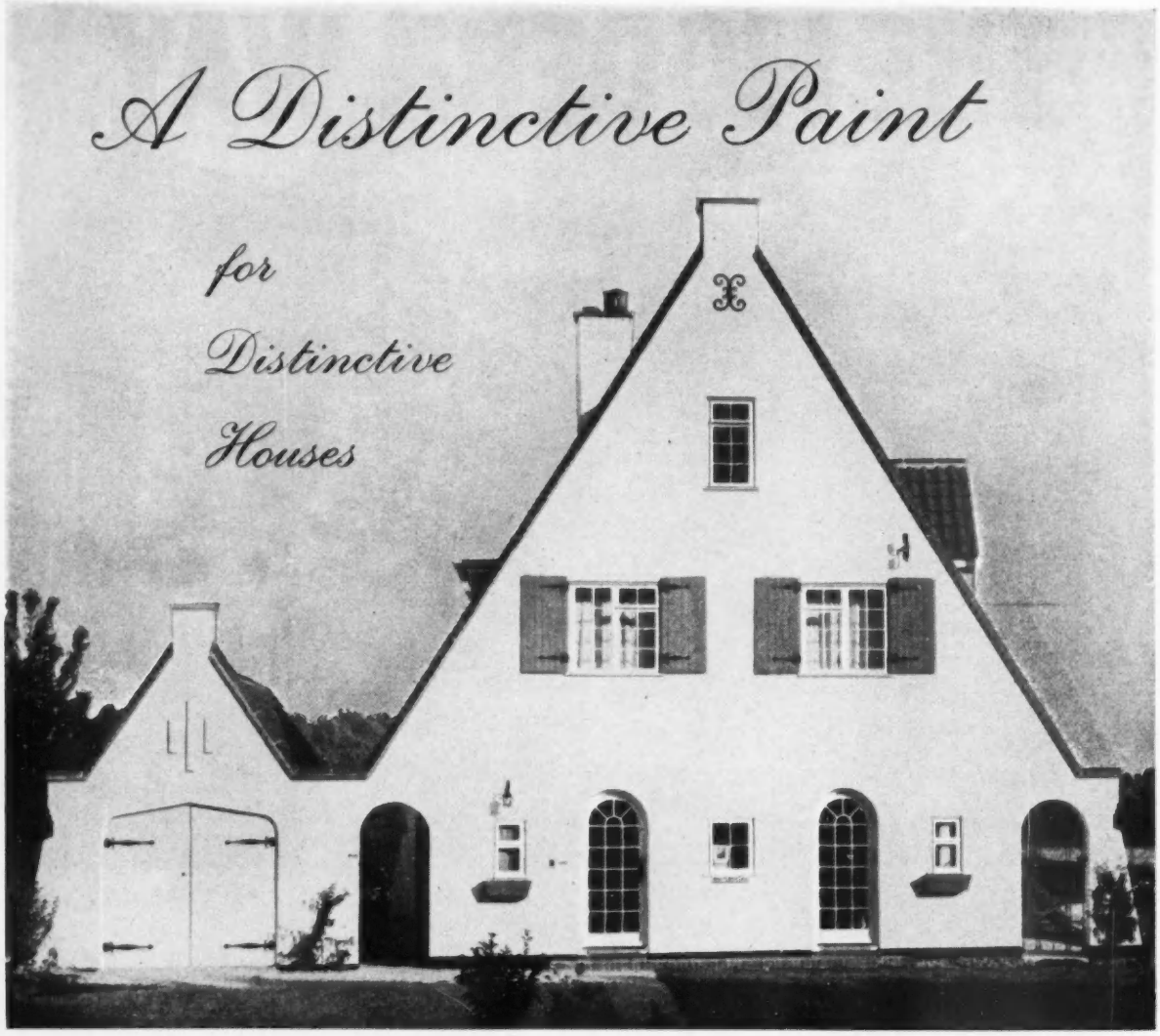
IT COSTS YOU MONEY NOT TO USE IT!

FROM BUILDERS' MERCHANTS — EVERYWHERE

FEB (GREAT BRITAIN) LTD.

102 Kensington High Street, London W.8 WES 0444

Albany Road, Chorlton-cum-Hardy, Manchester 21 CHO 1063



PRIVATE RESIDENCE AT ANGMERING-ON-SEA

[redacted] P.V.A. EMULSION PAINT

Specially formulated for outdoor use, VELODEX gives far better results than dual-purpose emulsion paints. Low in price yet high in quality, VELODEX can be applied to all outside walls — whether brickwork, concrete, renderings or asbestos cement sheets — and it has exceptional adhesive properties over existing coats of oil paints. Simple to apply, quick-drying, durable, washable and unaffected by alkalis, VELODEX emulsion paint is the experts choice.

USE VELODEX and VELOID for maximum decorative effect at minimum COST

GEORGE LILLINGTON & CO. LTD

Willow Lane, Mitcham, Surrey Phone: Mitcham 1066
For Scotland: 42 High Street Greenock Phone: Greenock 20175

VELOID The outstanding P.V.A. emulsion paint for interior surfaces, is the perfect partner to Velodex. Offered at a price far lower than any comparable brand, VELOID is carefully formulated to give ease of brushing with widest coverage. Two coat work can be completed in one day.

[redacted]

38/3 per 1 gal. tin
36/- per gallon in 5 gal. pails
Write for colour card and booklet VE.1

[redacted]

32/6 per gallon in 1 gal. tins,
30/6 per gallon in 5 gal. pails.
Write for colour card and booklet PV.1

TRY THE TWO MIX TEST

WRITE TO US FOR A FREE SAMPLE OF **FEBFLOW CONCRETE PLASTICISER** AND CARRY OUT THE FOLLOWING TWO MIX TEST

MIX No. 1: Prepare a 1-2-4 concrete mix with a 2″ slump

MIX No. 2: Use the same mix proportion and water cement ratio as mix No. 1 plus FEBFLOW CONCRETE PLASTICISER

You will find that the slump flowability, workability, and plasticity of Mix No. 2 is increased by 100% — which means faster placing and full compaction with the minimum of effort. Strength will be increased, segregation reduced and impermeability improved.
In addition, without loss in workability, the water-cement ratio can be reduced, the increase in strength thereby obtained allowing the cement content to be reduced with a consequent saving in material cost.

FEBFLOW

CONCRETE PLASTICISER

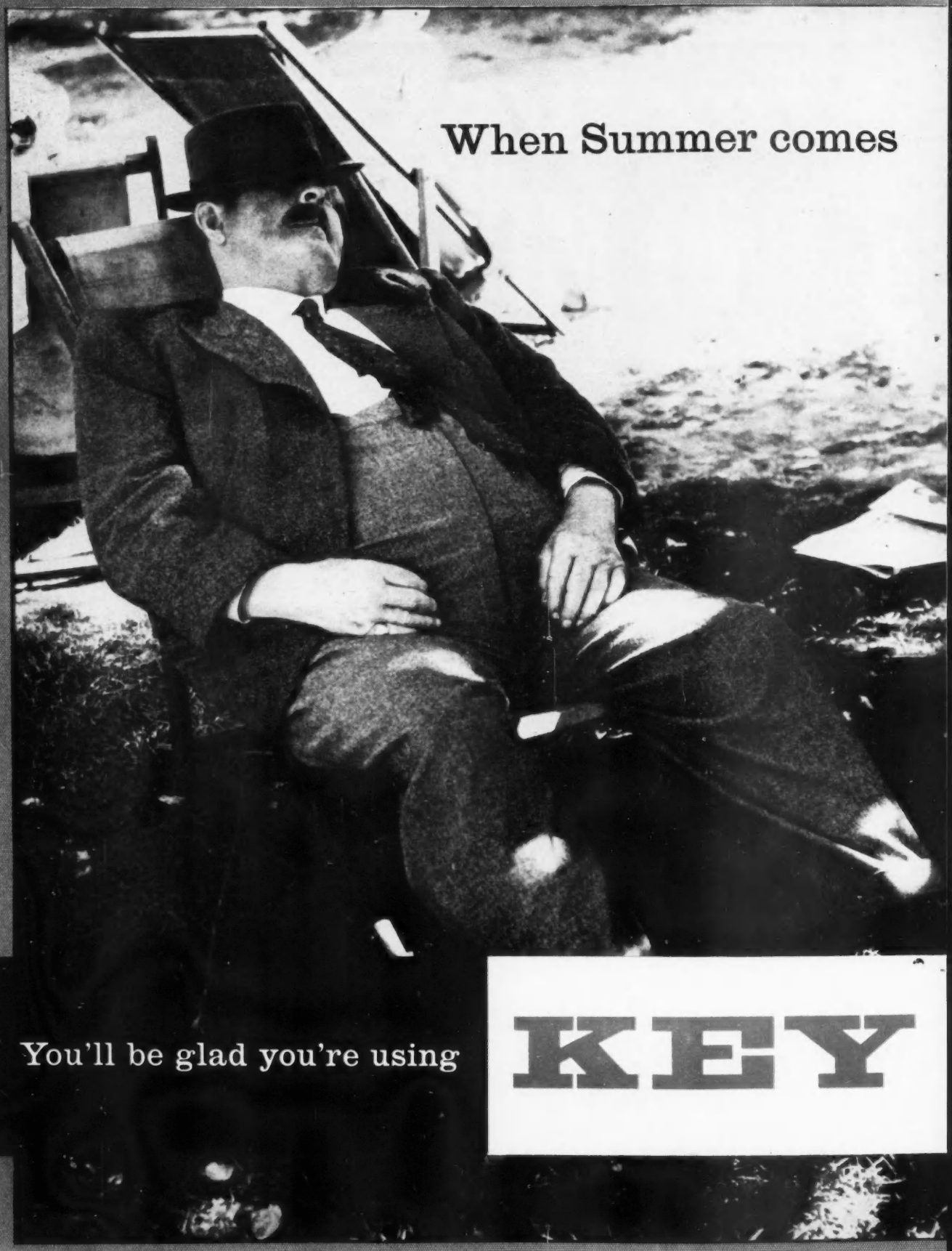
FEB (GREAT BRITAIN) LIMITED

It costs you money NOT to use it!

FROM BUILDERS' MERCHANTS — EVERYWHERE!

102 Kensington High St., London, W.8 WES 0444 · Albany Rd., Chorlton-cum-Hardy, Manchester 21 CHO 1063

DHB 8291


When Summer comes
You'll be glad you're using
KEY

An anticyclone is stationary over the roof of your car. Even Old Trafford has a heat haze. And everybody you meet makes you hotter still . . . *just the weather for building, eh?* Tell them all your concreting's held up, and they'll say you're never satisfied.

Could be worse, though. There could be a yawning chasm in the main access road where the drain goes through. But those KEY pipes are safely out of sight and out of mind—laid, tested and backfilled on the hottest day of the year.

ONLY KEY PITCH FIBRE PIPES GIVE YOU ALL THESE ADVANTAGES

- Cumulative savings from quicker, all-weather laying
- 24-hour emergency delivery service to almost every site in England and Wales
- Free information and advice from a professionally qualified technical service
- A complete drainage system, above and below ground, in one material
- Practical demonstration on request
- British Standard 'Kite' marking on every pipe
- 50 years' experience in pitch fibre
- Pioneer manufacture in Britain

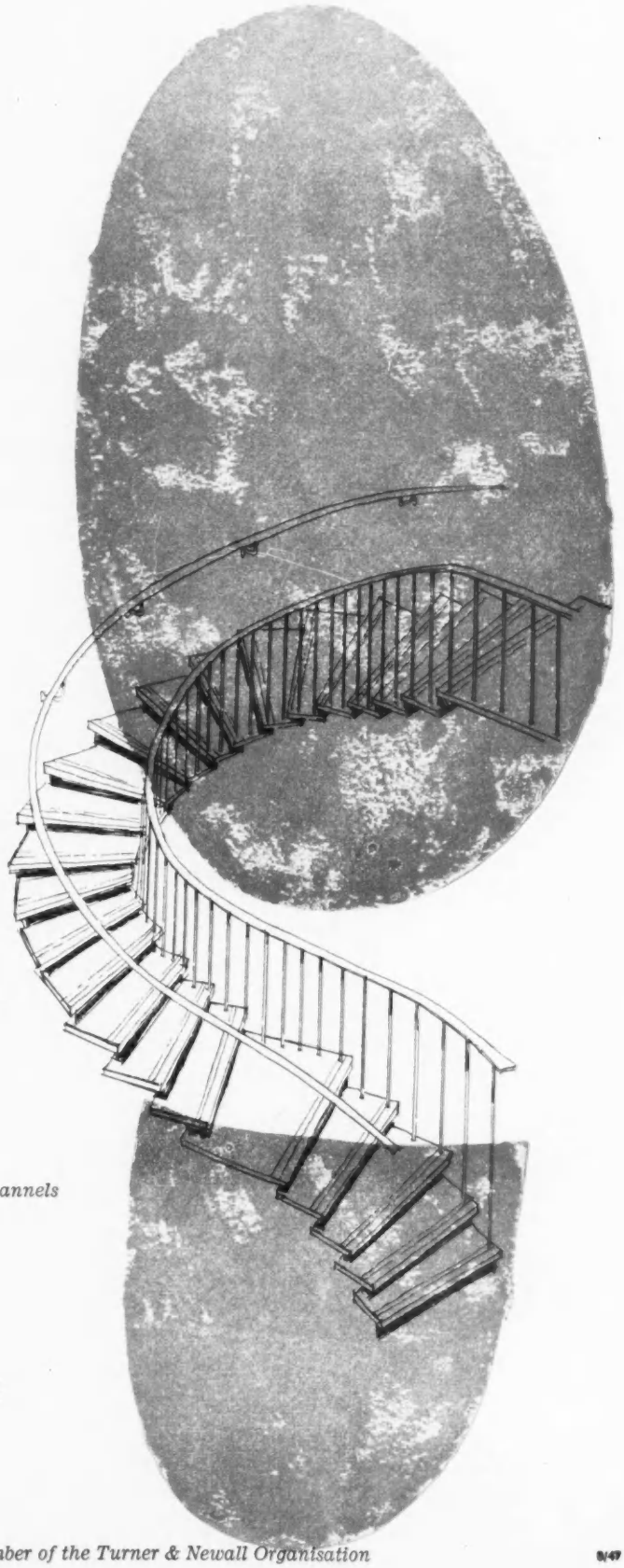
Pitch Fibre Drainpipes

FIRST NAME & LAST WORD IN MODERN DRAINAGE

PLEASE WRITE FOR FULL DETAILS TO:
THE KEY ENGINEERING COMPANY LIMITED
Larkfield, Nr. Maidstone, Kent. Telephone: Maidstone 7-7777 Extension 728

Reed PAPER GROUP

TGA 8058



FERODO STAIRTREADS KEEP IN STEP WITH MODERN DESIGN

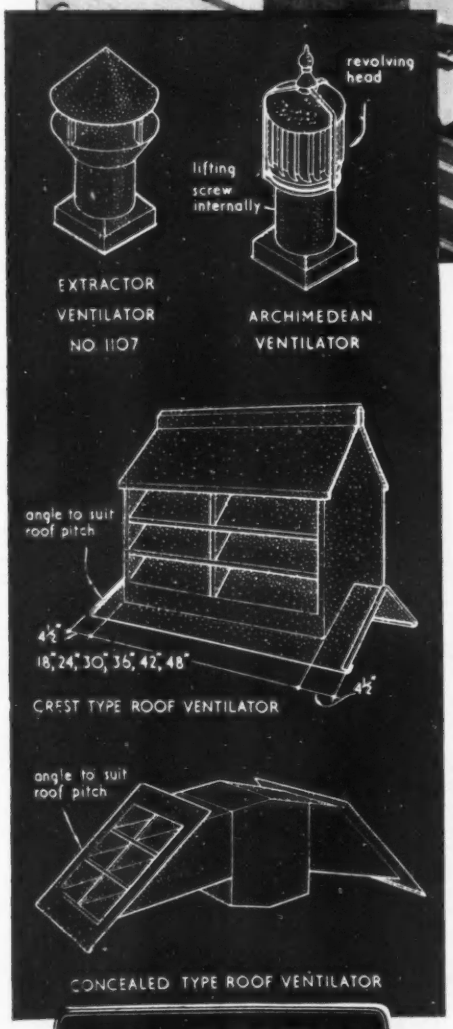
Ferodo non-slip stairtreads bring to these modern stairs a clean line, maximum safety for the people who use them, and years of life without maintenance or renovation.

* *7 attractive colours*
* *Comprehensive range — 32 treads with nosings, 3 flat treads, 2 steel-backed types*
* *Aluminium, silver bronze or manganese bronze channels*
* *Special orders can be manufactured*

Write to our Stairtread Department for full illustrated literature for your file.

FERODO non-slip stairtreads

FERODO LIMITED · CHAPEL-EN-LE-FRITH *A Member of the Turner & Newall Organisation* 8/47



HARVEY

"Natural" extraction of stale air is effective, economical and trouble-free.

'Harco' Self-acting Extractor Ventilators use the action of wind across specially designed louvres to induce a powerful upward suction movement of air, and at the same time prevent down draught. Allied to a correctly calculated number of air inlets, this type of "natural" ventilation will effect the changes of air required by normal conditions without recourse to mechanical forms of extraction. All ventilators are craftsman-made in zinc or mild steel, and can be supplied with or without roof seating as required.

Details are in our Catalogue No. 924; and we will readily advise on and suggest a suitable form of ventilation for any type of structure.

'HARCO' SELF-ACTING EXTRACTOR VENTILATORS

G. A. HARVEY & CO., (LONDON) LTD., WOOLWICH ROAD, LONDON, S.E.7.

Telephone: GREenwich 3232 (22 lines)

HARVEY Products for the Building Industry include:—

CHIMNEYS AND COWLS · OIL STORAGE TANKS · RAINWATER GOODS IN MILD STEEL AND ZINC · STORAGE BINS · STOVE PIPES AND FITTINGS · TANKS, CISTERNS AND CYLINDERS — DIRECT AND INDIRECT · WEATHER VANES · WIREWORK PRODUCTS

SM/10

TRIANCO DUPLEX

CONTRA-FLOW FULLY AUTOMATIC PADDLE TYPE

MIXING PLANT

The Elevated Mixer and Skip are provided with electric controls and mixing and discharge of concrete is at the rate of 200 tons per day, and one operator only is required.

Mixing Trough capacity 15 cu. ft. mixed concrete, 30 batches per hour. Skip capacity 21 cu. ft. Pre-selection at ground level from a detached Control Panel, as illustrated, to operate **elevator, mixing, water-injection, discharge** and other controlled features.

In the TRIANCO Contra-Flow Duplex Mixer the aggregates are subjected to helecoidal, vertical and horizontal motion hence providing a minimum mixing time—maximum strength—and a thorough homogeneous uniform mix. For further particulars write to:

TRIANCO LIMITED

IMBER COURT, EAST MOLESEY, SURREY

Tel. EMBerbrook 3300

DURABLE

Strength

Engineering bricks by Armitage have unusual resistance to abnormal pressure and shock stresses. That is why they are regularly specified by architects for large engineering contracts.

Armitage

ENGINEERING BRICKS

GEORGE ARMITAGE & SONS LTD., ROBIN HOOD, WAKEFIELD

Tel.: ROTHWELL 2141 (3 lines) (LEEDS) "Grams: "ARMITAGE SONS, ROBIN HOOD"
London Agent: Mr. S. W. Robinson, 37 Sinclair Grove, N.W.11 Tel.: SPEedwell 1426

ndh 2144a

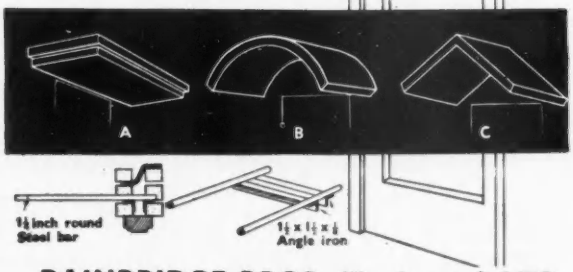
Specify **ALUMINIUM CANOPIES**

Ahead of modern design yet in keeping with the demands of price and time factors—these canopies are proving to be a success all over this country. Briefly the salient points are listed below.

Alicanopies

(a) ECONOMICAL TO BUY AND TO FIT.
(b) EASE AND SPEED OF FITTING.
(c) LONGEVITY.
(d) PRODUCED IN A VARIETY OF DESIGNS — ALL IN GOOD TASTE.
(e) FINISHED IN CREAM ENAMEL.
(f) ADD DIGNITY TO ANY NEW BUILDING, OR CAN BE USED TO MODERNIZE AN OLD BUILDING.

SEND FOR FOLDER ILLUSTRATING DESIGNS AND APPLICATION.



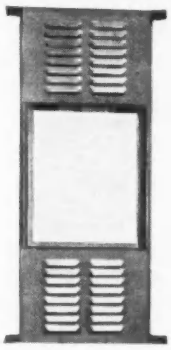
BAINBRIDGE BROS. (Engineers) LTD

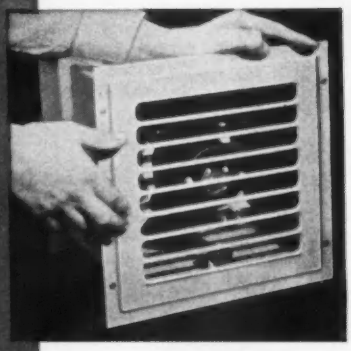
FACIA WORKS, WOODHILL ROAD, BURY, LANCASHIRE

TELEPHONE: BURY 5034/5035

Powered & Natural VENTILATION BY GREENWOOD-AIRVAC

for houses and flats





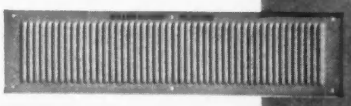
'PERMAVENT' LARDER LIGHTS AND VENTI-LIGHTS

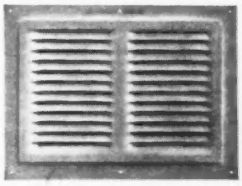
Fully weathered permanent ventilation and daylight. Built-in fly proof gauze. Multi-louvred panels. Suitable for pantries, sculleries, garages, stores, etc. Size range: Larder Lights 6¾" x 18" to 18" x 30"; Venti-lights 9" x 18" to 18" x 30".

'MECHAVENT 75' EXTRACTOR FANS

A complete 7½" wall-mounted fan unit, with safety grille, closing louvres and totally enclosed motor. Flush-fitting into 9" x 9" opening. Ideal for domestic kitchens, stores and drying cupboards.

'MAXAIRE' MULTI-LOUVRED PANELS





With specially designed multi-louvres. A wide range of sizes suitable for ductwork, grilles, heaters, cookers, air convectors and air conditioners.

WALL VENTILATORS

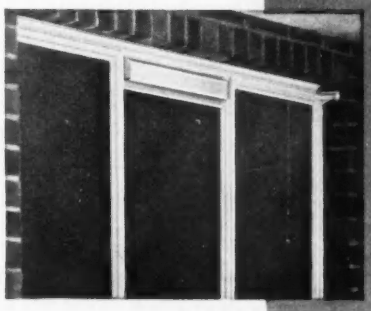
Suitable for permanent or controllable ventilation. Available in a comprehensive range of types and sizes for either external or internal fitting.

(above) Large free area embossed bar front movable louvre ventilator, type HML/B.

(right) Weatherlip heavy external fixed louvre ventilator, type 'L'.

'PERMAVENT' WINDOW VENTILATORS

Permanent or controllable ventilation with locked window security. Unobtrusive, lightweight and fully weathered. Minimum daylight restriction. For metal or timber windows.



write for this new folder—to day!

"Ventilation for Houses and Flats" Free on request

All these Ventilators are fully patented.

Greenwood-Airvac *ventilation*

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LTD

ESTABLISHED 1879.

PATENTEES, DESIGNERS AND MANUFACTURERS OF NATURAL AND MECHANICAL VENTILATING EQUIPMENT.

BEACON HOUSE, KINGSWAY, LONDON, W.C.2.
CHANCERY 8135 (4 lines). 'Grams: 'AIRVAC', LONDON

GV 12

Automatic Tipping is ONE of the *Loadmaster's* many advantages

AUTOMATIC TIPPING
Automatic Tipping at any number of floors. Achieves working heights of up to 500 ft., ensuring speedy placing of concrete.

RAPID ERECTION
A C E "Loadmaster" Hoists require no skilled labour either in erection or in operation.

SMOOTH OPERATION
"Duplex" Spigot guides ensure smooth running of platform.

EASY TO TRANSPORT & STORE
Basic components are small and compact—easily handled by lorry, dumper, etc.

SUPER PERFORMANCE
Platform speeds up to 250 ft/min. Long life bearings fitted throughout.
Mark I 20 cwt. capacity, 12 cu. ft. automatic tipping skip.
Mark II 30 cwt. capacity, 18 cu. ft. automatic tipping skip.

ACE SERVICE
"Service to the Customer", that's the key phrase of the ACE Service Department, unrivalled for its courtesy, efficiency and speed.

Full specifications of the ACE "Loadmaster" will be gladly supplied on request. Ask also for details of other models in the popular range of ACE Construction Equipment, which includes the "Skymaster" Man-Carrying Hoist, "Comet" Mobile Hoist, "Humdinger" Vibrator, "Dalli" Handscraper, and "Bomag" Vibrating Rollers.

A.C.E. MACHINERY LIMITED

PORDEN ROAD · BRIXTON · LONDON · S.W.2

Telephone: BRIXTON 3293 (9 lines) Telegrams: AUSCON: TELEX: LONDON

and at:— Harlequin Avenue, Brentford, Middlesex.

ACE 91

THE BRITISH ALUMINIUM CO LTD

NORFOLK HOUSE ST JAMES'S SQUARE LONDON SW1

A P452

Driven cast insitu piles

Bored piles

Augered piles

Miga piles

Light tube piles

Composite piles

Large diameter bored piles

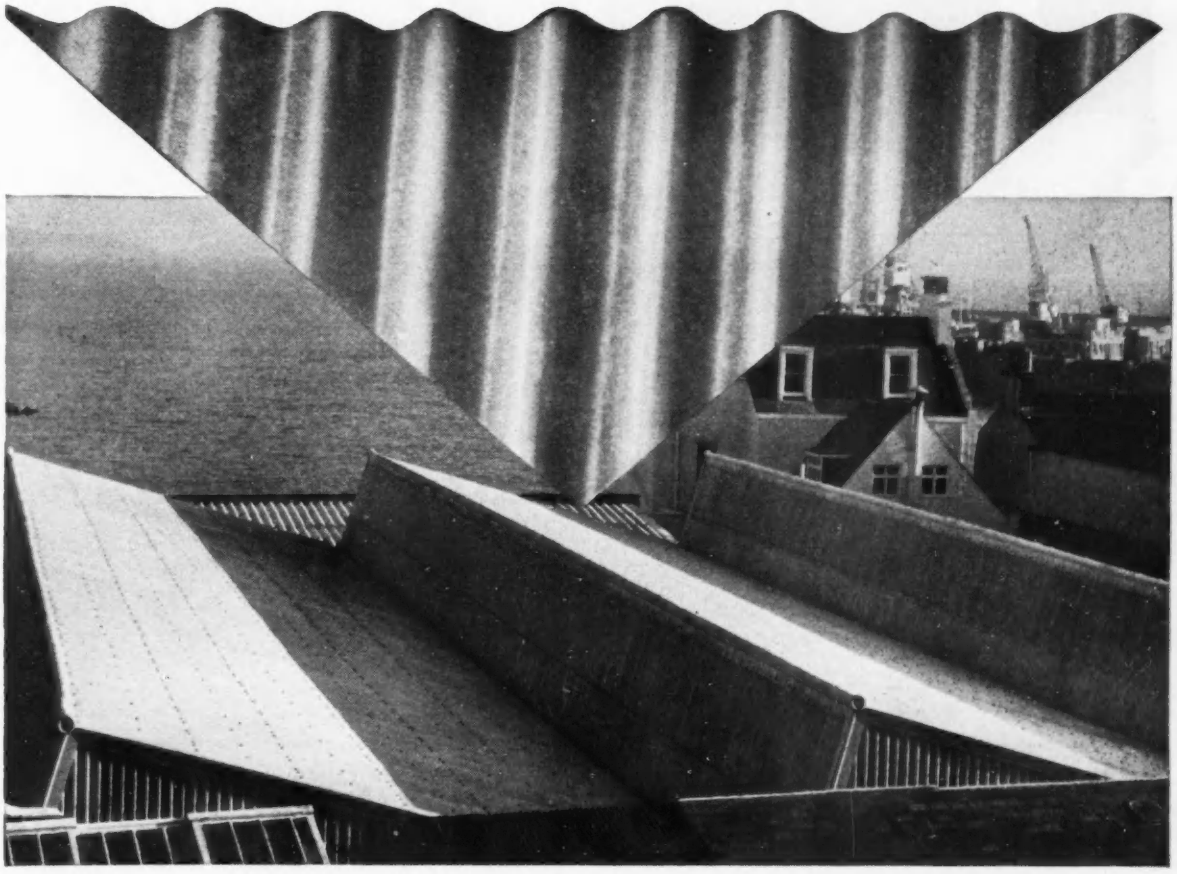
Reinforced concrete foundations

A new brochure fully describing 7 methods of Piling is available on request

FRANKI—the largest piling organisation in the world **FRANKIPILE**

FRANKIPILE LIMITED · 39 VICTORIA STREET · LONDON SW1 · TELEPHONE ABBEY 6006-9

everything points to FILON



FILON installed in Messrs. Bucktrouts' premises, Jersey, used for bottling and storage of wines and spirits and for storing tobacco.

the economical translucent structural sheeting—

FILON is economical because it is simple to install, so light to transport and handle. It passes up to 85% of light, is non-corrodible and virtually indestructible; it is of uniform strength throughout and can be obtained in any length required because it is made by a continuous process.

FILON is ideal for rooflights, cladding and canopies in many kinds of buildings and it is available in flat sheet (in roll form if required) or in standard profiles to match corrugated iron, aluminium and asbestos sheeting. FILON is approved by Local Authorities, Ministry of Works, the Admiralty, War Office and Air Ministry. Write for full details. **NEW! Coloured FILON in any standard profile and special decorative profiles. Colour samples on request.**

FILON

STRUCTURAL SHEETING

strong light translucent

B.I.P. REINFORCED PRODUCTS LIMITED · STREETLY WORKS · SUTTON COLDFIELD · Phone: Streetly 2411

'Let's talk it over with Charringtons, now'

A FREE TECHNICAL ADVISORY SERVICE

Before making a final choice between fuel-oil or solid-fuel heating systems, planning problems need expert consideration.

Whether you are to build, or provide plans for a block of flats, an entire housing estate, or a single private house, Charrington's technical service can help you to ensure that your project will have the most suitable, practicable and efficient heating system. Our experts will gladly assist with heating installation plans for your entire project.

Here are some of the many points on which Charringtons experts can give architects, builders and estate development organisations invaluable help and advice:—

Special requirements for the convenient siting and planning for fuel-oil storage tanks or solid-fuel bunkers; proper provision for oil-filling and fuel delivery points; information on cost of equipment; guidance on installation and running costs; choice of special equipment to meet specific space-heating and hot water requirements.

Write or telephone

CHARRINGTONS

Heat is our business

DISTRIBUTORS OF

COAL, COKE Mobil FUEL OILS

TOWER HOUSE · TRINITY SQUARE · LONDON EC3 · ROYal 9111

TGA C0171/8

HARDWOOD · SOFTWOOD · PLYWOOD · WALLBOARD · VENEER · HARDWOOD · SOFTWOOD · PLYWOOD · CHIPBOARD

DOUGLAS FIR PLYWOOD

(EXTERIOR TO W.B.P.)

FOR IMMEDIATE DELIVERY

Solid Two Sides.

¼″	33 Bundles	(12)	96″ × 48″
⅜″	166 ,,	(10)	96″ × 48″
⅝″	322 ,,	(7)	96″ × 48″
	100 ,,	(5)	120″ × 48″
¾″	500 ,,	(5)	96″ × 48″

Underlay Sheathing

¾″	500 ,,	(4)	96″ × 48″

Regular Sheathing

⅜″	500 ,,	(8)	120″ × 48″

Main Distributors of WEYROC and TYBORD

BAMBERGERS

LIMITED

27-28, FINSBURY SQUARE, LONDON, E.C.2

TELEPHONE : MONarch 4466 (20 lines)

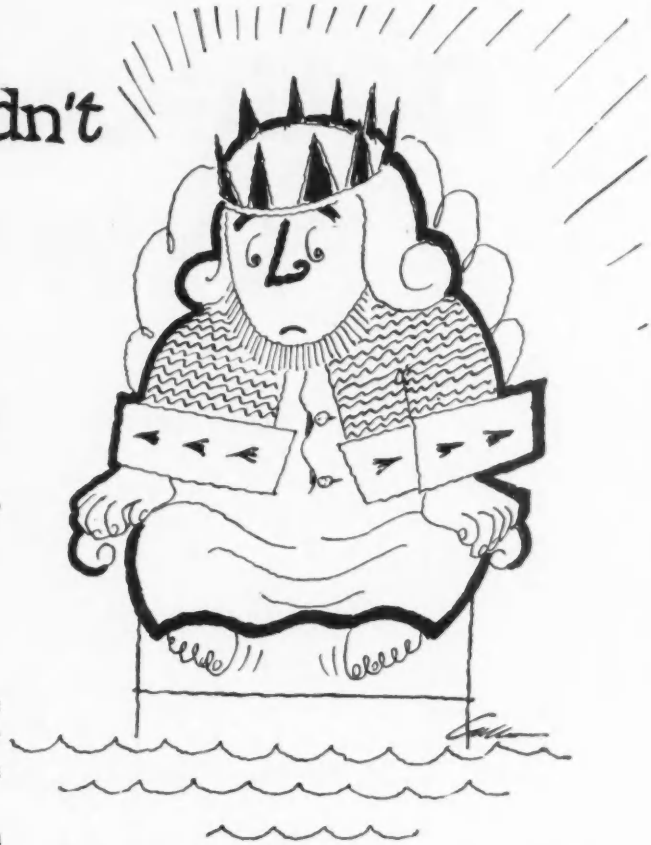
Bristol Channel :

TAYLOR & LOW BROS. LTD., CANADA WHARF, BRISTOL

Telephone : Bristol 25101 (6 lines). Branches in CORNWALL.

HARDWOOD · SOFTWOOD · PLYWOOD · WALLBOARD · VENEER · HARDWOOD · SOFTWOOD · PLYWOOD · CHIPBOARD

Canute couldn't stop it...



Sealocrete P.V.C. Waterbar can!

Inserted between each lift whilst the concrete is being placed, Sealocrete P.V.C. Waterbar ensures there is no seepage of water through floor to wall and construction joints.

Sealocrete P.V.C. Waterbar is made of a special grade of unfilled Polyvinyl Chloride, is chemically inert, non-corrosive and resistant to ageing.

Being flexible, it is specially recommended for joints where limited movement is expected. Cross and Tee Sections can also be supplied pre-fabricated.

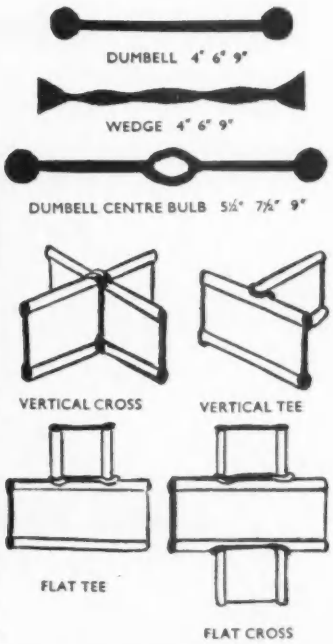
Possessing all the properties of P.V.C. Waterbar, plus greater rigidity, Sealocrete Corrugated Bitumised Waterbar (Patented) combines maximum handling facility with lower cost—and may be preferred in specific applications.

Write for descriptive leaflets giving full information.

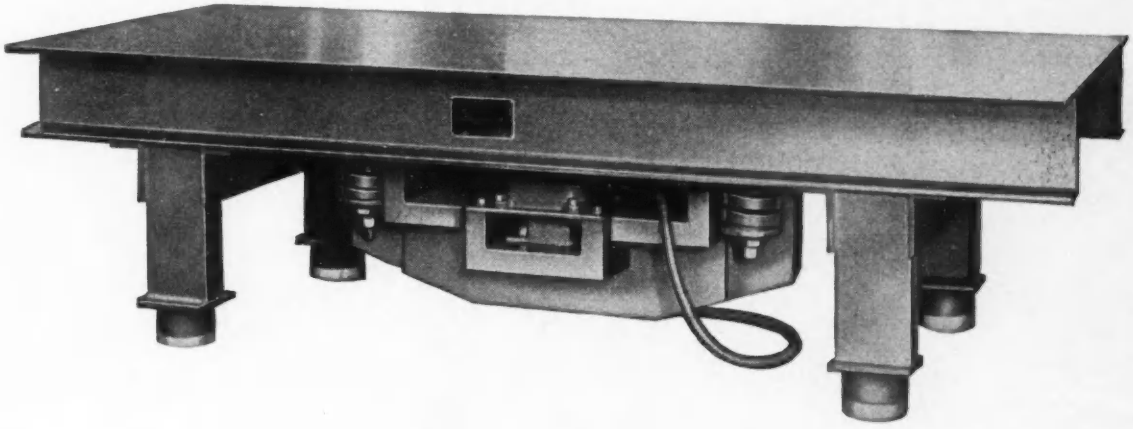
SEALOCRETE PRODUCTS USED ALL OVER THE WORLD

SEALOCRETE PRODUCTS LIMITED
ATLANTIC WORKS · HYTHE ROAD · LONDON · N W 10
TEL Ladbroke 0015 PBE
TELEGRAMS: SEALOCRETE, WESPHONE, LONDON
CABLES: SEALOCRETE, LONDON

SIZES AND SECTIONS



'SHERWEN' VIBRATING TABLE



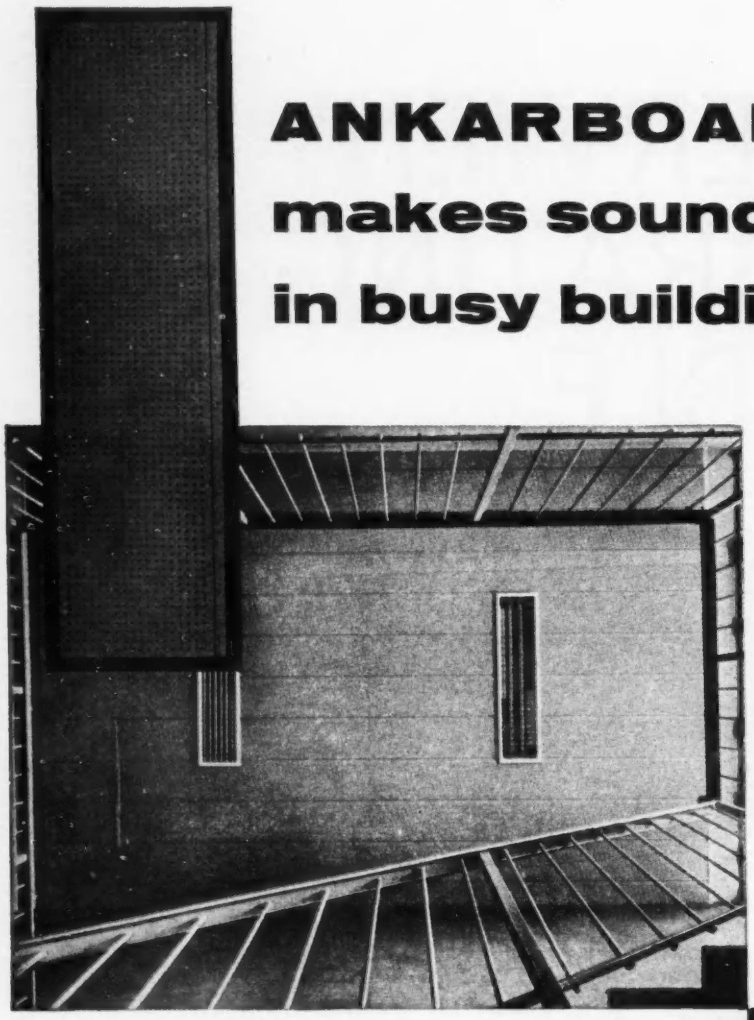
successfully compacts concrete with a low water-cement ratio. This electro-magnetically-operated high-frequency table, with its 3,000 vibrations per minute, is recognised as the ideal vibrator for precast concrete work. There are no wearing parts, no motor, generator, bearings, cams, belts, shaftings, or pulleys. There is nothing to grease or oil, and the vibration can be controlled instantaneously. A wide range of tables is available for this class of work, full details will be forwarded on request.

G.E.C. 'SHERWEN' vibrating table

THE GENERAL ELECTRIC COMPANY LIMITED OF ENGLAND
FRASER AND CHALMERS ENGINEERING WORKS, ERITH, KENT

286

ANKARBOARD makes sound sense in busy buildings



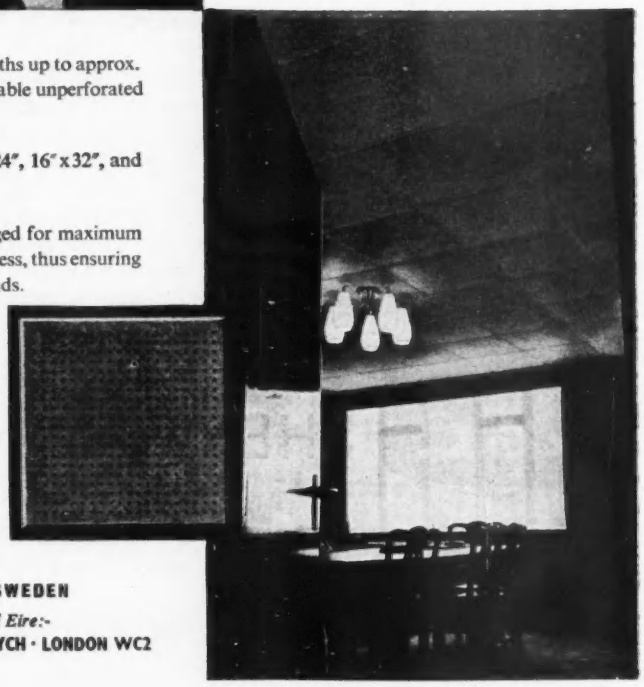
Ankarboard has been chosen by many leading companies because it eliminates noise-stress and improves working conditions. Ideal for board-room and stairway alike, it cuts extraneous noise to the minimum while providing limitless opportunity for pleasing decorative effects.

ANKARBOARD *can be supplied treated to Class 1 for spread of flame B.S.S. 476/53*

ACOUSTIC BOARDS
½″ or ¾″ thick, are available in 12″ or 16″ widths and in lengths up to approx. 18′. Grooved and ship-lapped for easy fixing. (Also available unperforated as insulation "longboards").

ACOUSTIC TILES
½″ or ¾″ thick in sizes 12″x12″, 16″x16″, 24″x24″, 12″x24″, 16″x32″, and 32″x32″. Tiles are bevelled on all four edges.

PERFORATIONS FOR BOARDS AND TILES
4 m.m. holes at 15 m.m. centres. Depth of holes is arranged for maximum acoustic effect while corner holes are bored to half thickness, thus ensuring good grip when tiles are screwed or nailed to fixing grounds. Random perforations also available.



Ankarboard Acoustic Boards and Tiles fitted throughout the new offices of Thos. Parsons and Sons Ltd., Mitcham.

Architect: J.V Hamilton FRIBA. Staff Architect Messrs Clutton · London · SW1. General Contractor: F.G. Minter Ltd., London. Ceilings by: Insulatall Services Ltd., London WC2.

SCA BOARD & PLYWOOD SUNDSVALL-SWEDEN

Manufactured by
SVENSKA CELLULOSA AKTIEBOLAGET · SUNDSVALL · SWEDEN

For further particulars apply to the Sole Selling Agents for U.K. and Eire:-
MARTIN OLSSON (FIBREBOARDS) LTD. MELBOURNE HOUSE · ALDWYCH · LONDON WC2

ELECTRIC FLOOR-WARMING

INFORMATION SHEET **2**

'The Orchard,' Bramcote, Notts.
Designed by R. H. Eberlin, Dip. Arch., A.R.I.B.A.

Electric floor-warming in an architect's own house

'The Orchard' was designed by the architect for his own use. Wanting the most efficient system of space heating, he chose electric floor-warming, consisting of heating cables embedded in the floor screed. Thermostatically controlled, and using only 'off-peak' electricity, the system maintains a constant background warmth equivalent to 60°F in the living rooms, and 50° to 55°F in the bedrooms, on a total loading of 11.1kW. The total floor area in the house comprises 1,363 sq. ft., and the floor-warming is laid under three different types of floor finish—cork, linoleum, carpet and underfelt.

Running costs In the first year of operation, the electric floor-warming, together with the electric water heating (all the other services in the house are electrically operated too !) consumed 17,943 units, costing £56.1.5. Thus a family of four enjoyed all the advantages of complete home comfort and constant hot water, all year round, for just over a pound a week!

Other advantages With electric floor-warming, all the chores connected with conventional heating are eliminated. No stoking boilers, ordering or storing fuel. No ash removal. There is nothing to see, for no radiators or pipes mar the rooms. There is no dirt; nothing to stain walls or ceilings. The heat is evenly spread throughout the rooms, and causes no draughts. More than that, the installation costs are much less than other kinds of space heating installation.

If you are planning new houses for comfort and efficient warmth, ask for details from your Electricity Board, or write for free booklet to the Electrical Development Association.

Issued by the Electrical Development Association, 2 Savoy Hill, London, W.C.2.

We wouldn't be surprised if Charles could. Our Nailable open web joists are easily handled into position despite their superior strength.
Metsec joists are tailor made for each individual contract. Architects and Builders constantly specify their use because of their high strength/weight ratio, great adaptability and economy.
All Metsec joists are protected by chemical pretreatment and high temperature stoving.
Write for the Book of the Metsec Joists.

METAL SECTIONS LTD

A TI COMPANY

OLDBURY · BIRMINGHAM · Telephone: BROadwell 1541

PLEASE SEND "JOISTS" CATALOGUE BLB.

NAME .....

POSITION .....

COMPANY ADDRESS .....

.....

.....

EASIER HANDLING—IN HIDUMINIUM

Rainwater goods in Hiduminium are as strong as iron but only one third the weight and so are easy to handle and fit; they do not rust nor stain surrounding surfaces and will not crack even in the coldest weather; they need no painting since they are highly resistant to corrosion.

Send for our full illustrated catalogue and price list.

Specify **Hiduminium** rainwater goods

MANUFACTURED BY HIGH DUTY ALLOYS LTD · SLOUGH · BUCKS · TELEPHONE: SLOUGH 24431

Just how strong would you like your concrete?

A 'Cumflow' mixer will meet your specification - *to say the least!*

MADE IN 6 SIZES

From No. 0 size 2 ft. 5½ ins. diameter pan with 2 cu. ft. input capacity to the No. 6 size 9 ft. 3 ins. diameter pan with 36/40 cu. ft. input capacity.

Contractors portable model with integral mechanical weigher

These wonderful Liner machines just can't help excelling themselves! Typically, on a Ministry of Supply contract where 5,000 lbs. per sq. in. was specified, an irrepressible Cumflow produced a mix that registered *11,700 lbs.* at 28 days, using a water content of ·42.

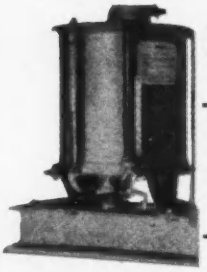
This isn't merely a machine that stirs up components until they *appear* to be mixed; the Cumflow is a scientific pre-planned method that disciplines every particle to an intensive mix in only 30 seconds! This intensiveness permits a great saving in cement and makes the Cumflow ideal for drier, high strength mixes . . . the perfect machine, in fact, for pre-stressed concretes. As maximum strength is achieved in 30 seconds, the Cumflow can put out 40 batches per hour with well-organised recharging.

25 years of superiority and *still* the best in the world; that is the Cumflow's record, amply vouched for by the glowing praise we receive from users everywhere.

LINER

CUMFLOW

The world's most perfect concrete mixer



If you are interested in what other people think of the Cumflow, write for our booklet "What users say".

Only Liner mixers have the patented

INVARAC WATER TANK

for positive water metering.

Please send full details of Cumflow Mixers

Name.....

Address.....

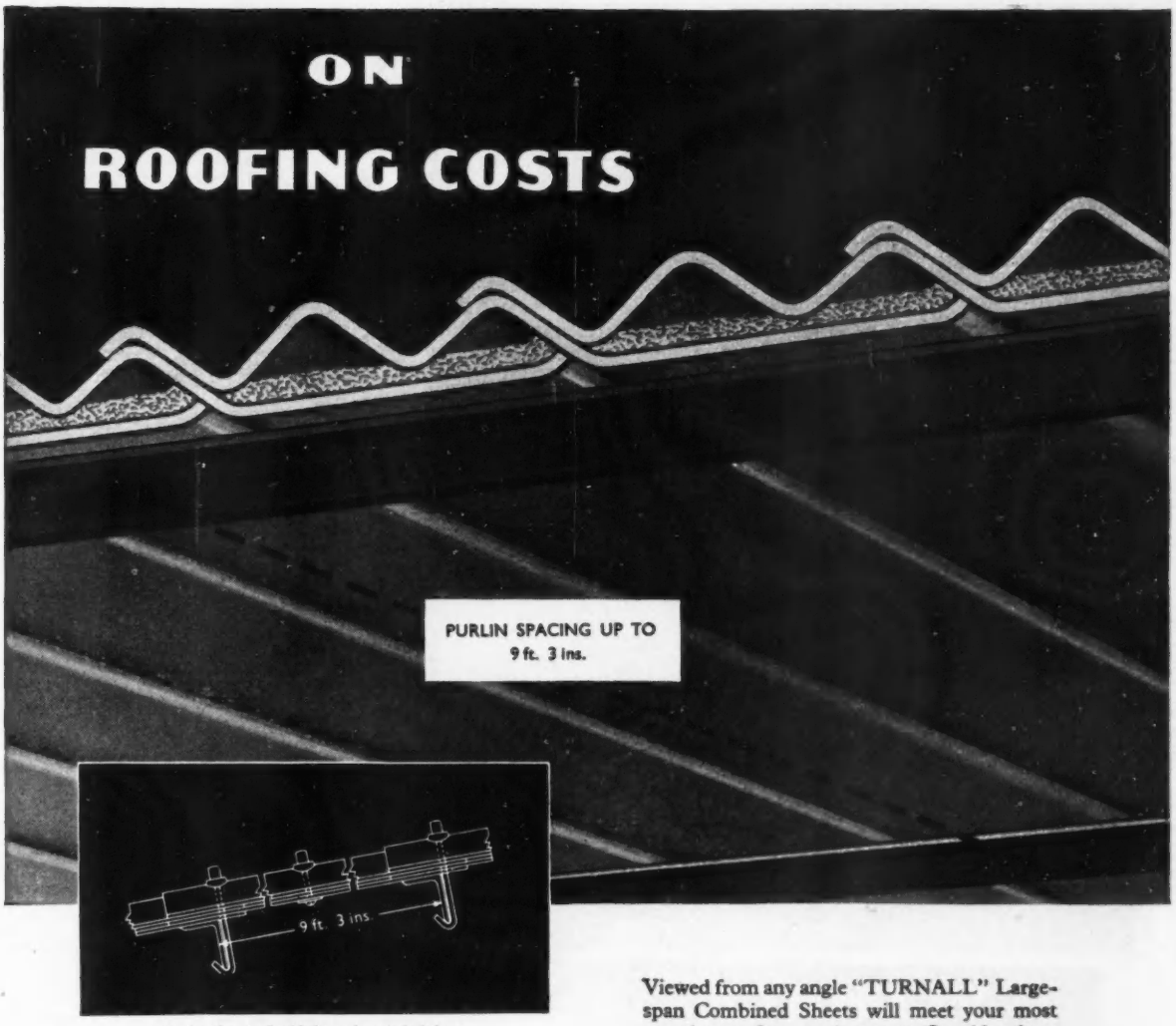
.....

THE LINER CONCRETE MACHINERY CO. LTD.

Phone: Gateshead 72501 **68 PARK ROAD, GATESHEAD, 8.** *Grams: "Liner, Gateshead"*

London Office and Showrooms: Liner House, 2 Lexden Road, Acton, W.3. Phone: ACOrn 8931

SAVE



Section showing hookbolts and sag bolt fixings.

"TURNALL"
REGD. TRADE MARK

LARGESPAN

COMBINED SHEETS

(ASBESTOS-CEMENT)

Available in natural Grey and also "TURNALL" "COLOURGLAZE" Finish

Ask our Sales Department for a copy of technical publication B.107 which gives full details of this outstanding roofing material.

Viewed from any angle "TURNALL" Largespan Combined Sheets will meet your most exacting roofing requirements. Consider these features—DOUBLE SKIN ROOFING laid in one operation and possessing a strength factor far in excess of that called for in any Code of Practice.

PERMANENT EFFECTIVE THERMAL INSULATION.

The cavity formed between the two skins is largely unventilated and materially assists in the reduction of heat loss through the roof fabric. By packing this cavity with glass fibre infill, 1" thickness, there is further improvement in thermal resistance of the complete covering—thermal transmission (U) being reduced from 0.520 to 0.170 B.t.u/sq. ft./hr./°F.

PURLIN SPACING—up to 9 ft. 3 in.

ROOF PITCHES—from 4° upwards.

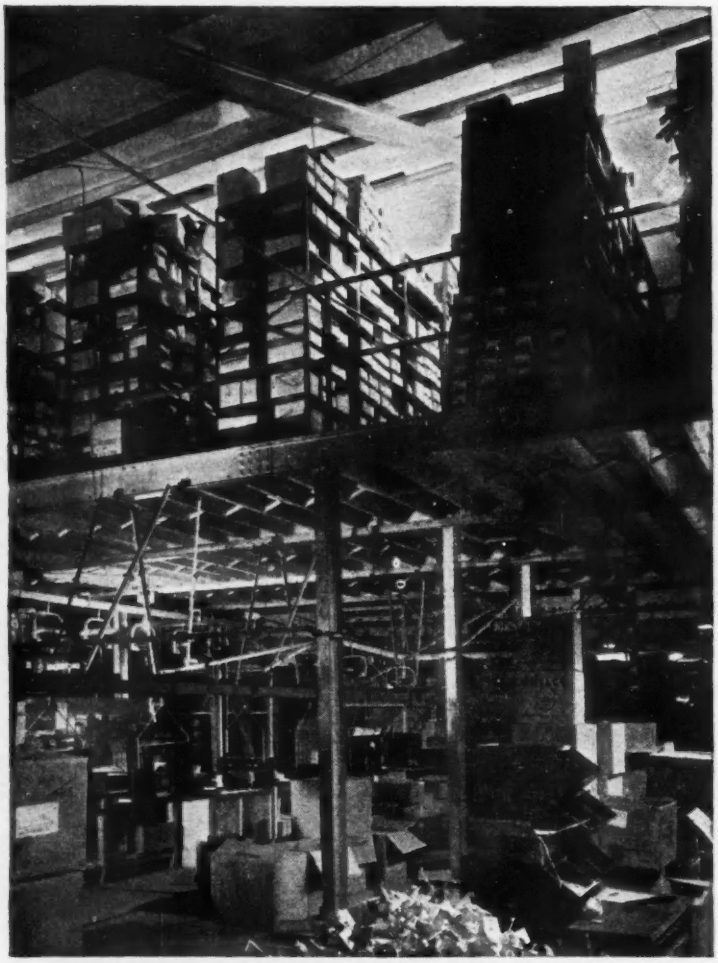
TURNERS ASBESTOS CEMENT CO. LTD · TRAFFORD PARK · MANCHESTER 17 · Tel: TRAfford Park 2181

A MEMBER OF THE **TURNER & NEWALL** ORGANISATION

LONDON Tel: WATerloo 4712 AND AT BIRMINGHAM · BRISTOL · CARDIFF AND GLASGOW

LS 4

PLIMBER WOOD CHIPBOARD



for Industrial Flooring

Plimber is used for Warehouse flooring at Philco Radio's Chigwell Factory. The 8′ x 4′ x ¾″ Plimber boards are laid over 7″ x 2″ joists at 16″ centres: the designed loading of the whole first floor structure is 100 lbs./sq. ft.

(Photo with acknowledgement to PHILCO (OVERSEAS) LIMITED, CHIGWELL)

PLIMBER WOOD CHIPBOARD

Standard size: 8 ft. x 4 ft.
Maximum size: 16 ft. x 4 ft.

PLIMBER WOOD CHIPBOARD

Thicknesses: ½ in. and ¾ in.
Density: 45 lbs./cu. ft.

PLIMBER WOOD CHIPBOARD

BRITISH PLIMBER

Grades: Standard PLIMBER 45 and Wood Veneered PLIMBER

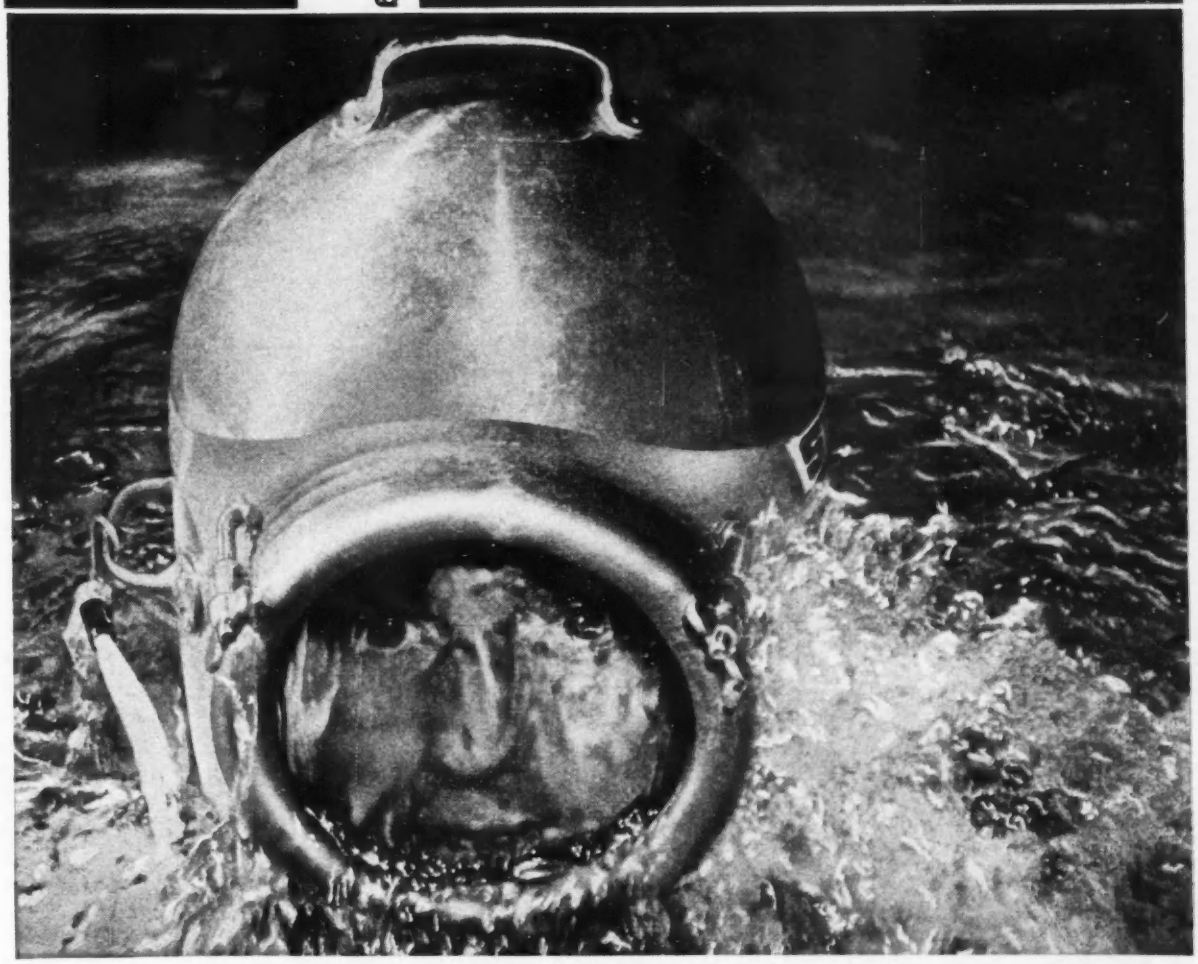
For technical literature, prices, and names of stockholders please write or telephone

BRITISH PLIMBER LIMITED

Rainham, Essex. **Telephone: Rainham 5262**

Armstrong CORK COMPANY LTD.

SUBMITTED TO PRESSURE



An efficient filling material for a concrete expansion joint must offer only a small amount of extrusion under pressure, and the greatest possible recovery from compression. Armstrong B.C. Joint Material uses the natural resilience of resin-bonded cork to obtain these necessary characteristics. The cork is impregnated with bituminous material to protect it against the weather, and is resistant to oil, petrol, solvents, acid and alkali solutions. The B.C. joint filler cuts easily, is light, and forms a bond with the concrete. Supplementary uses include screed underlayment and anti-vibration pads for machinery. Please write for full details.

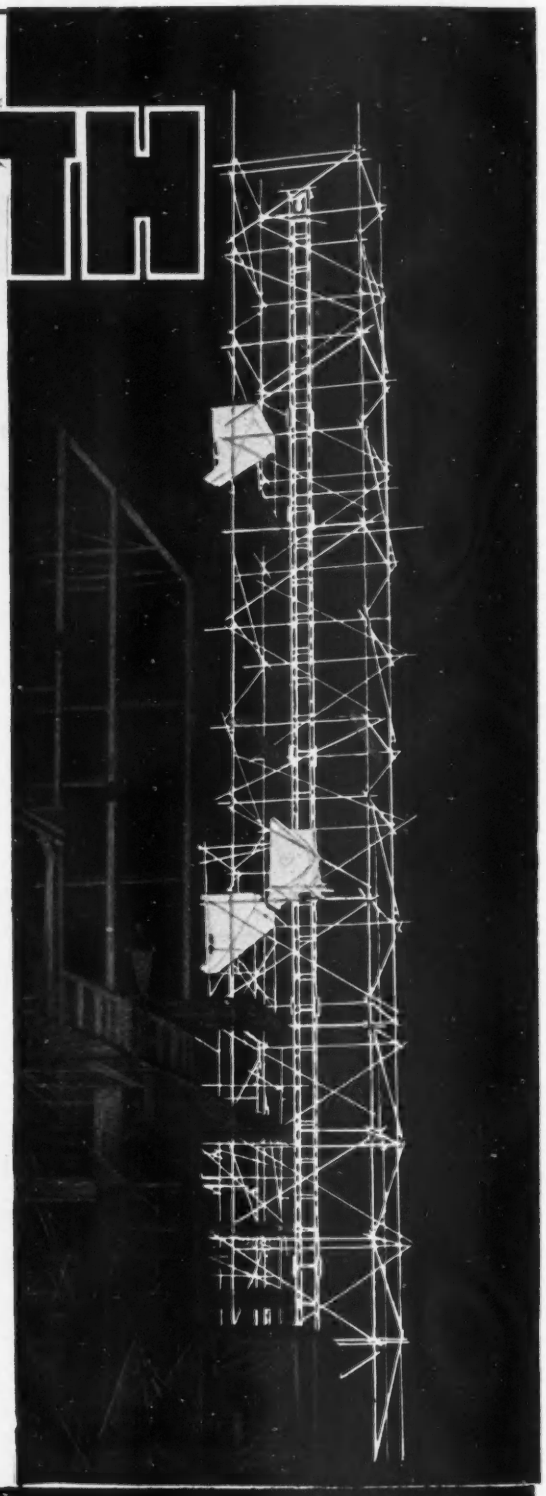
Armstrong BC *JOINT MATERIAL*

ARMSTRONG CORK COMPANY LIMITED, INDUSTRIAL DIVISION, KINGSBURY, LONDON, N.W.9. COLindale 7080

ABC.3

STRENGTH IN DESIGN

PLUS SPEED IN PERFORMANCE



THE BHC RANGE :—

MOONRAKER TOWER HOIST	15-50 cwt.	100/230 ft. min. *Write for Brochure* D 1
CENTRE SLUNG HOIST	10-40 cwt.	150/225 ft. min. *Brochure* F 1
AUTOMATIC CONCRETE ELEVATOR	Capacity 12½ & 18 cu. ft.	*Brochure* D 1
ANT QUEEN MOBILE HOIST		Capacity 10 cwt. *Brochure* B 1
SAGA JUNIOR & SCAFFOLD JIB CRANE	Capacity up to 5 cwt.	*Brochure* A 1
SAGA POWER WINCHES		Diesel or Electric *Brochure* C 1

FOR FULLY ILLUSTRATED LITERATURE WRITE TO:—

BRITISH HOIST & CRANE COMPANY LTD.

COMPTON (NEWBURY) BERKSHIRE

Telephone: COMPTON 234 (5 LINES) *Telegrams:* BRITHOIST, COMPTON, BERKSHIRE

LONDON SPARES & SERVICE DEPOT: STEVENAGE WHARF, STEVENAGE ROAD, FULHAM, S.W.6 Tel: FULHAM 3207

BRITISH HOIST & CRANE COMPANY LTD. ENGLAND

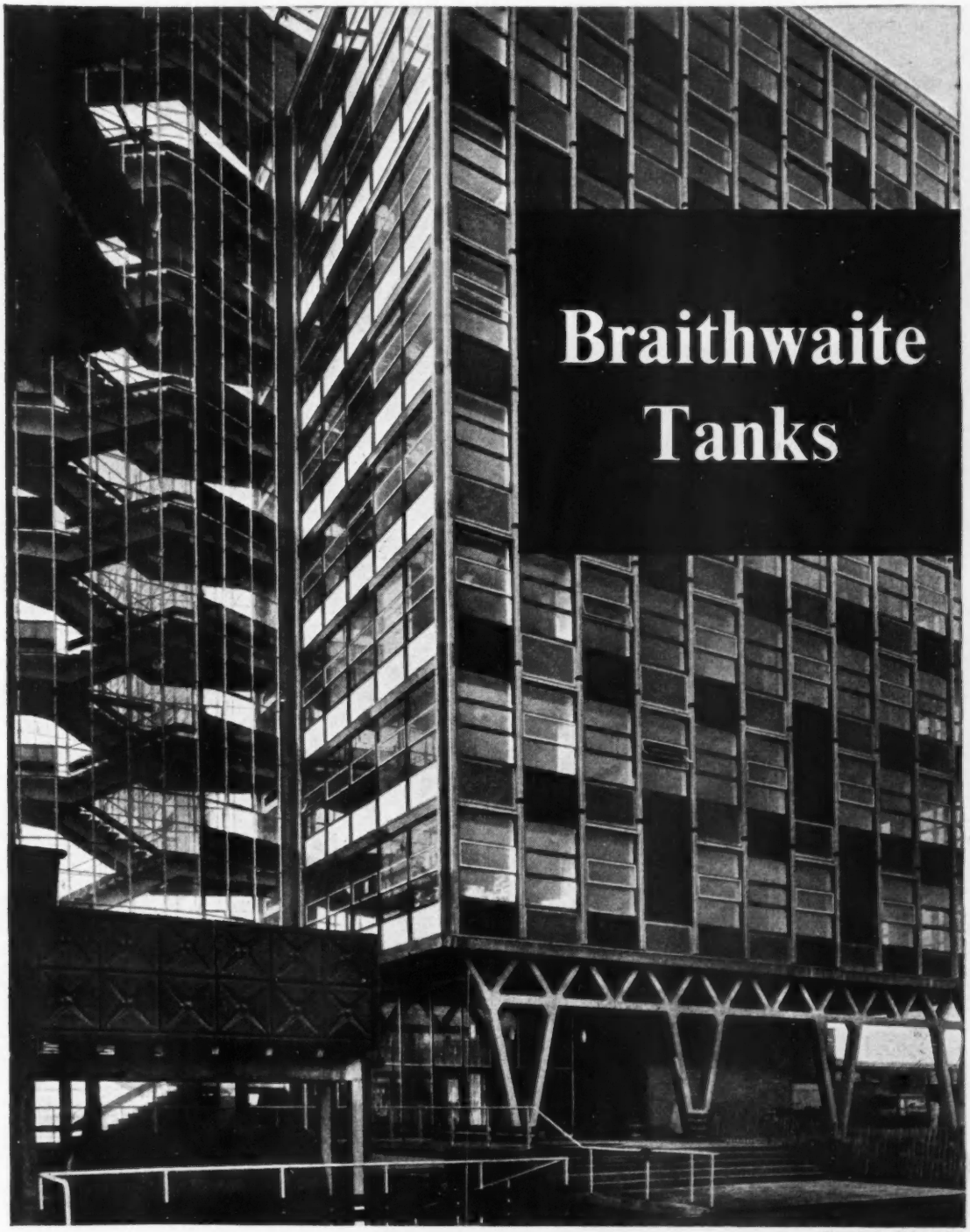


Photo courtesy Architects Jnl.

A covered Braithwaite Pressed Steel Tank supplied and erected at the College of Technology, Derby.
Chartered Architects: Grenfell Baines & Hargreaves, Derby
Main Contractors: Gee, Walker & Slater Limited, London

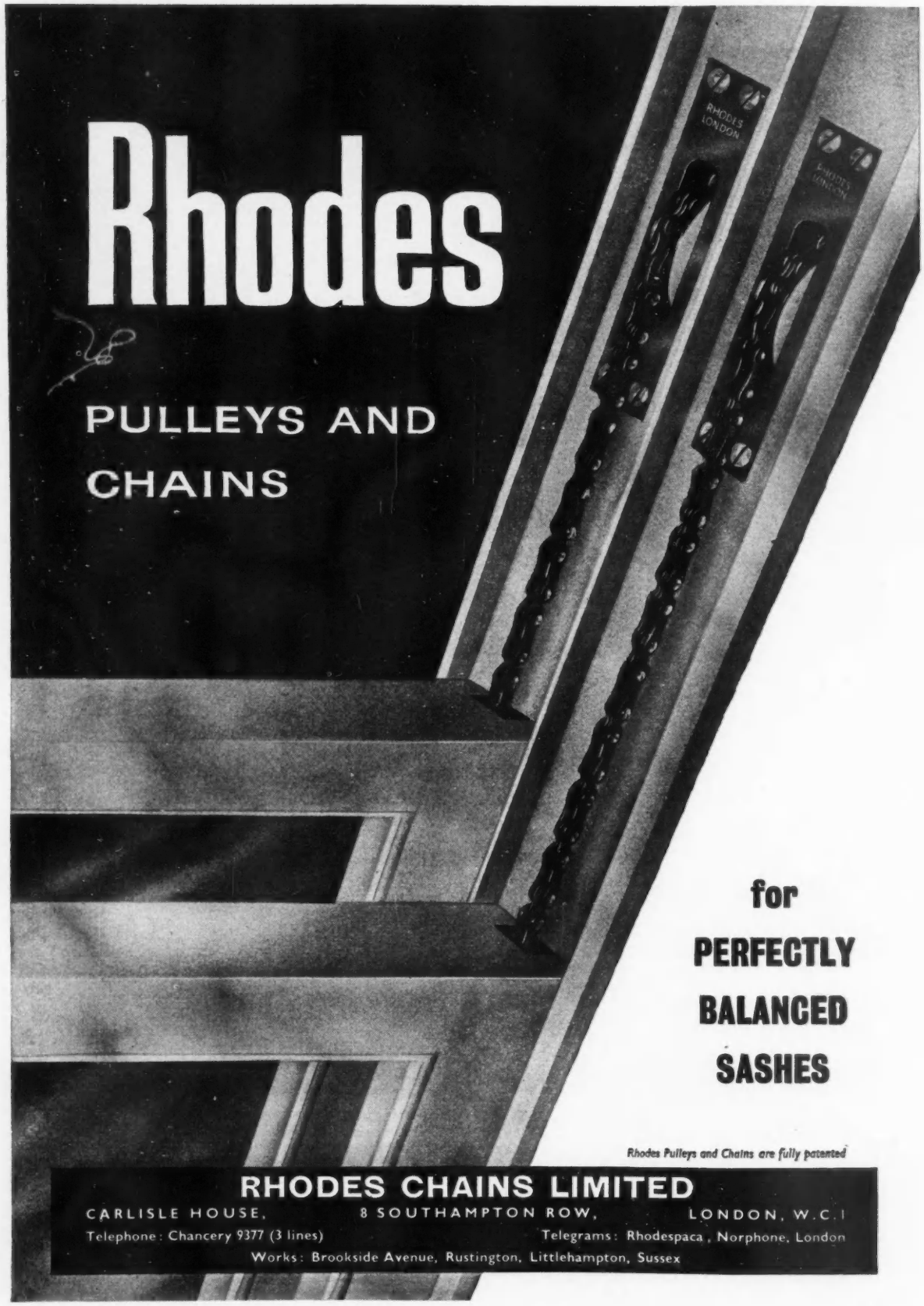
BRAITHWAITE & CO. ENGINEERS LIMITED

BRIDGE & CONSTRUCTIONAL ENGINEERS

LONDON OFFICE: DORLAND HOUSE · REGENT STREET · LONDON SW1 Telephone: WHItehall 3993

Telegrams: Bromkirk Phone London: Telex: 23320

BRAITHWAITE CO. & STRUCTURAL LIMITED · BRAITHWAITE FOUNDATIONS & CONSTRUCTION LIMITED


Rhodes
PULLEYS AND
CHAINS
RHODES LONDON
for
PERFECTLY
BALANCED
SASHES
Rhodes Pulleys and Chains are fully patented
RHODES CHAINS LIMITED
CARLISLE HOUSE, 8 SOUTHAMPTON ROW, LONDON, W.C.1
Telephone: Chancery 9377 (3 lines)
Telegrams: Rhodespaca, Norphone, London
Works: Brookside Avenue, Rustington, Littlehampton, Sussex

Colour at your command

From the extensive Ruboleum range of plain and marbled varieties come the very shades you have in mind for your new project. Warm, rich hues to enliven subdued surroundings. Light pastel tones to lend an air of spaciousness. Bright, exciting tints to convey a feeling of gaiety. Ruboleum provides the perfect outlet for your originality . . . allowing you to devise the unusual in pattern and create pleasing effects in colour.

In specifying Barry's Ruboleum, you choose the very best . . . the acknowledged aristocrat of all floor coverings. Distinctive, economical, hard-wearing, resilient, quiet, kind to the feet and easy to clean, Barry's Ruboleum provides all the advantages you seek plus a variety of shades specially blended to harmonise with B.S. Colour Range 101.

Ruboleum is obtainable in 3 gauges—6.7 mm., 4.5 mm. and 3.20 mm.

✳ *Send now for full particulars and a free copy of Barry's latest Sample Book which greatly simplifies colour selection.*

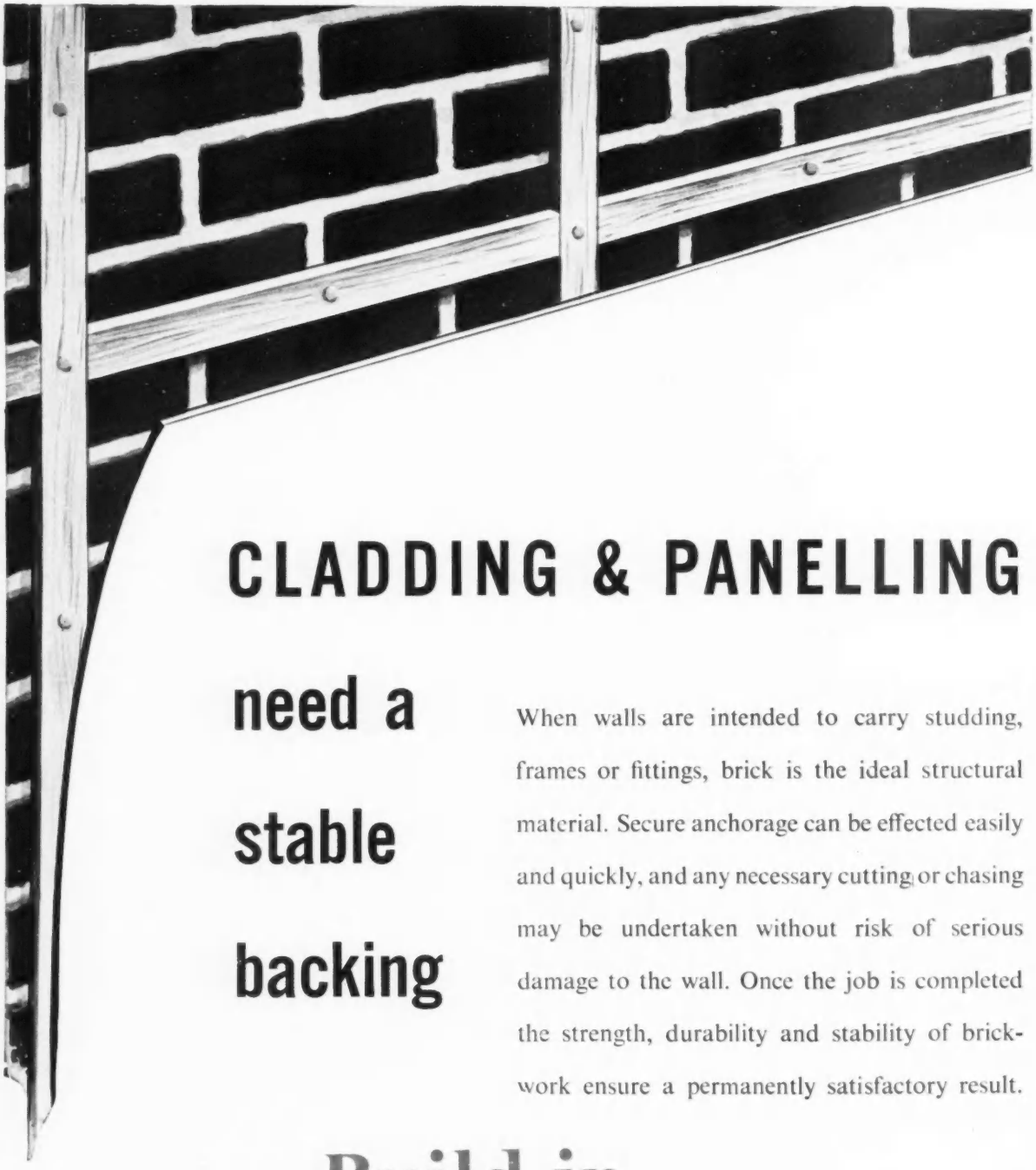
BARRY'S LINOLEUM

REGD. NAME RUBOLEUM

BARRY, OSTLERE & SHEPHERD LTD · KIRKCALDY · SCOTLAND

AP 30

B*



CLADDING & PANELLING

need a stable backing

When walls are intended to carry studding, frames or fittings, brick is the ideal structural material. Secure anchorage can be effected easily and quickly, and any necessary cutting or chasing may be undertaken without risk of serious damage to the wall. Once the job is completed the strength, durability and stability of brickwork ensure a permanently satisfactory result.

Build in BRICK

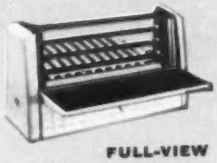
Issued by The National Federation of Clay Industries, Drayton House, London, W.C.1.

SPECIFY SOFONO CONVECTOR MK II

Materials, Finish: Cast-iron. Refractory lined firebox. Vitreous enamelled fire. Choice of 8 colours. Single-cased construction. *Non-boiler Model:* Radiation/convection for 2,250 cu. ft; radiation only for 1,750 cu. ft. *plus* background heating for 2,000 cu. ft. *Boiler model:* Radiation/convection for 2,000 cu. ft; radiation only for 1,500 cu. ft. *plus* background heating for 1,200 cu. ft. Above figures are for traditional insulation standards. Higher space heating outputs where Egerton insulation standards apply. Hot water from 25/30 gallon cylinder. Alternatively serves 45 sq. ft. of radiators. Adjustable throat restrictor incorporated. *Fire:* Any 16" Sofono continuous fire may be used. Luminous flame gas ignition burner available. Cast-iron or wrot-welded steel boiler has hand holes and can be supplied bower-barffed. Drilled, tapped, 1" B.S.P. one side. Reversible for left or right hand connection. *Combustion Control:* Adjustable ashpit door to fire. *Installation:* Brick opening 22½" wide x 13½" deep x 33¼" high, hearth to underside of concrete lintel. Sheet steel liner available for brick opening. *Total Heat to Room of Installation.* Can be installed behind tiles with inlet and outlet grilles slabbed in a faience return to fireblock, or with Sofono contemporary self-convecting interior frame. Opening with faience return: 16" wide x 22" or 24" high. Opening with self-convecting interior frame: 20" wide x 28" high. Can be installed behind Sofono contemporary self-convecting cast-iron enamelled surround. *Multi-room Heating:* When air is ducted to room behind or above, inlet *MUST* come from neutral source, and outlet grilles *MUST* be closeable. *Tools, Accessories:* Ashpan and tool for combustion control, lifting ashpan, operating boiler damper and throat restrictor.

GRANGE-CAMELON IRON CO. LTD., FALKIRK
A Federated Foundries Company

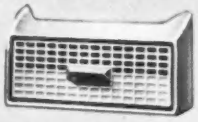
VARIOUS FIRES WHICH CAN BE FITTED TO THESE APPLIANCES



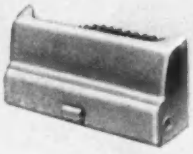
FULL-VIEW

GRANGE

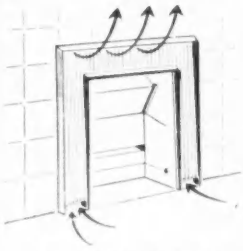
LO-FRONT



LOW-VIEW

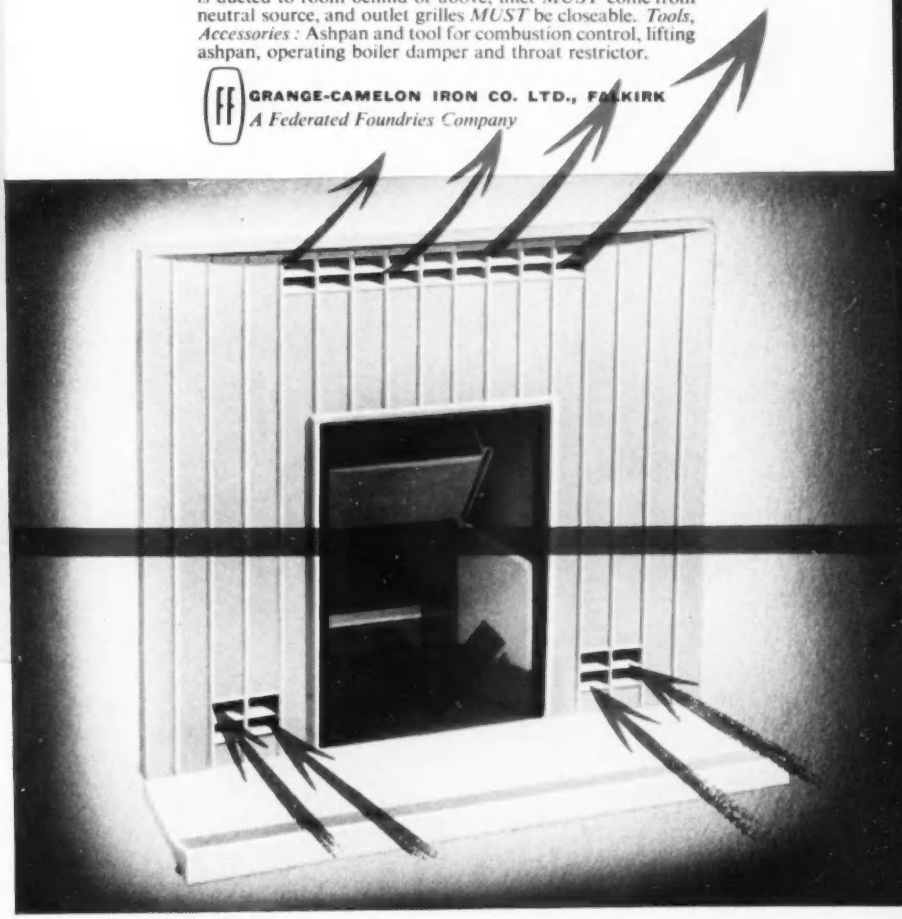


RURAL



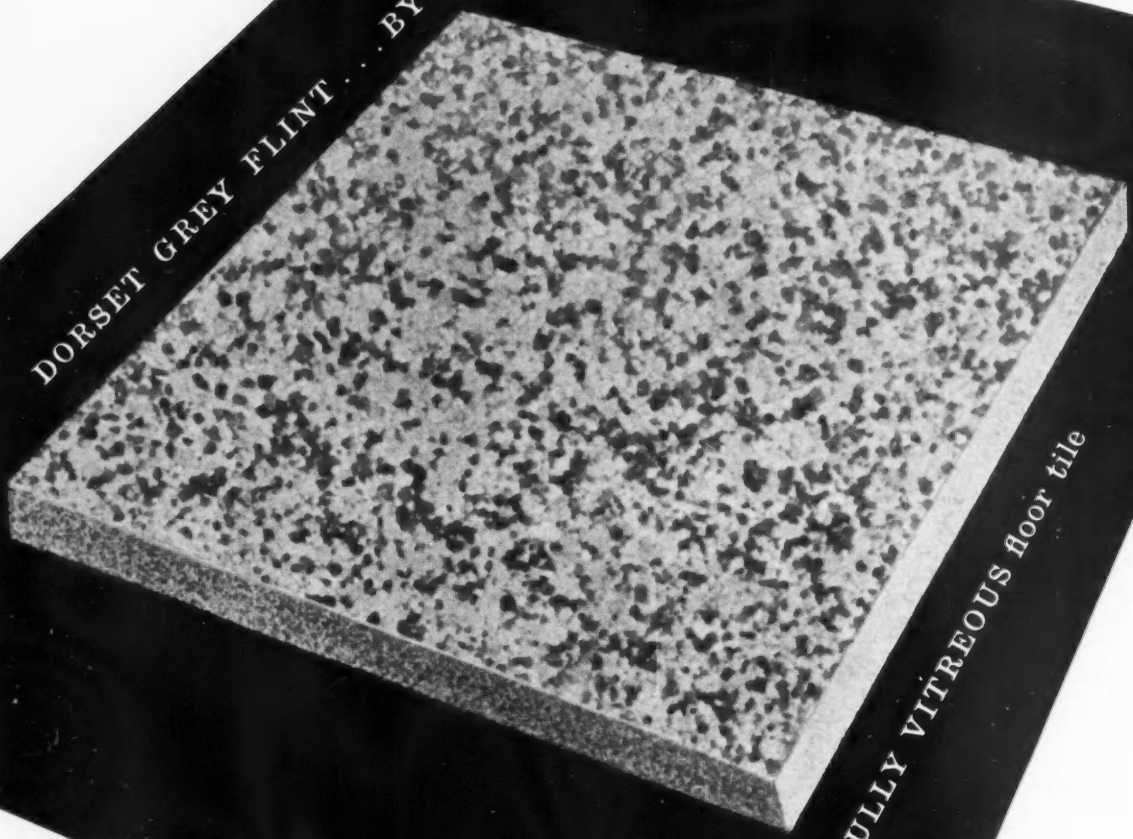
THE SOFONO SELF-CONVECTING INTERIOR FRAME

Specially designed for use with the CONVECTOR MK. II, this vitreous enamelled cast-iron self-convecting interior frame with a reeded surface pattern incorporates unobtrusive inlet and outlet grilles. Available in 8 colours.



Please write to the Technical Director for information on all Sofono appliances

DORSET GREY FLINT . . . BY CARTER

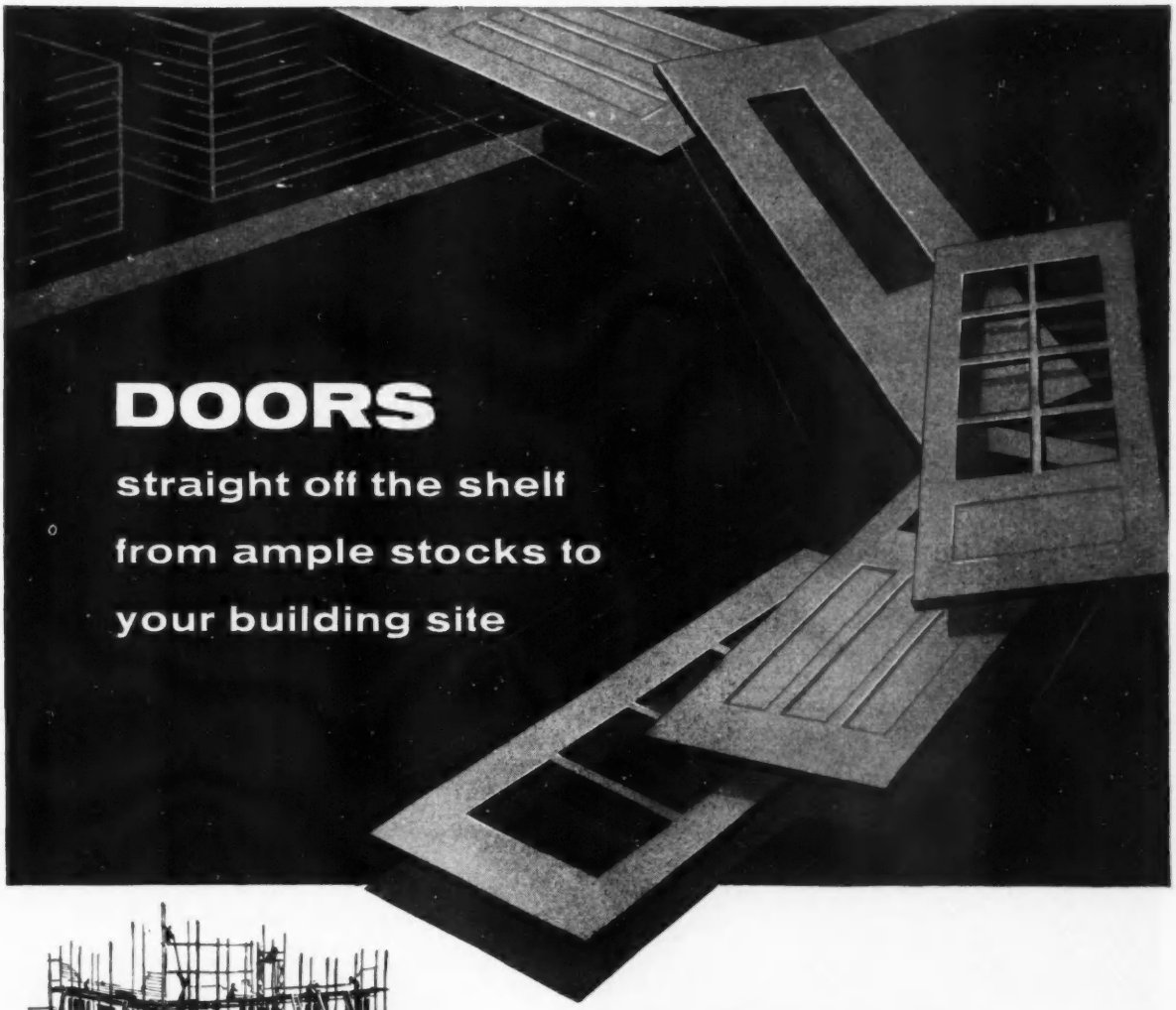


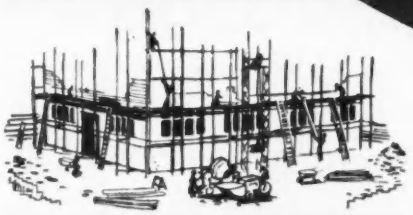
BRITISH made 6" x 6" FULLY VITREOUS floor tile

The tile illustrated is one of the Dorset range of floor tiles, now being produced with entirely new and most modern — equipment ensuring that there are no ceramic floor tiles superior to these in the world.

One of the Carter group of companies

CARTER TILES LIMITED
POOLE, DORSET *Poole 125*





FROM THESE THREE CENTRES

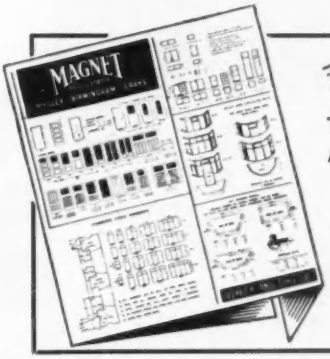
YORKSHIRE Whitley Street, Bingley, YORKS.
Phone: Bingley 4401 (5 lines)

BIRMINGHAM Love Lane, Aston, BIRMINGHAM
Phone: Aston Cross 3291 (3 lines)

ESSEX London Road, Grays, ESSEX
Phone: Grays Thurrock 4774/78

MAGNET
JOINERY LIMITED

CAN DELIVER WINDOWS AND DOORS ANYWHERE IN THE COUNTRY



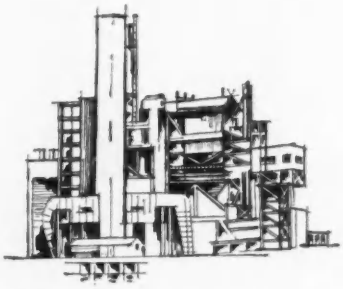
Free on request!

THE MAGNET WALL CHART
Doors—Door Frames—French Frames—Wings and Vestibule Frames—Standard and Stock Windows—Splays and Circular Bays—Bay Window Details.

FOR STANDARD DOORS AND WINDOWS CONTACT MAGNET JOINERY LIMITED

Tantallon Castle

Occupied by the Douglas family for over 3 centuries it is situated on a high, wind-swept promontory opposite Bass Rock on the East Lothian coast. One of the grandest and most rewarding of all Scottish castles, its walls, 50 feet high and 12 feet thick, withstood siege and shot by James IV and V in the 15th and 16th centuries.



Castles in the Air...

An old castle or a modern steel structure sooner or later reveals the constant wear and tear of the elements—erosion, corrosion, in the salt laden air of the coast or the sulphurous atmosphere of the industrial city.

You may not possess a castle in the air but if the reality of corrosion in industrial plant is *your* problem write to us for details of how DRYGALV Cathodic Protection and DRYNAMELS Maintenance Paints can considerably help your maintenance programme.

Stop corrosion positively with

DRYNAMELS MAINTENANCE PAINTS

DRYNAMELS LIMITED BIRMINGHAM 28

In the time it takes you to read this...

you could have put a new colourful plastic-surfaced top on a table or counter in HARDEC — the balanced★ board which lies flat by itself needing no adhesives and only the simplest edging.

And it only takes a very little longer to use the same board (in another of its many designs) for wall-panelling.

A simple framework of timber grounds ... impact adhesive (panel-pinned or screwed, if you prefer it) and the job's done. Done very well too!

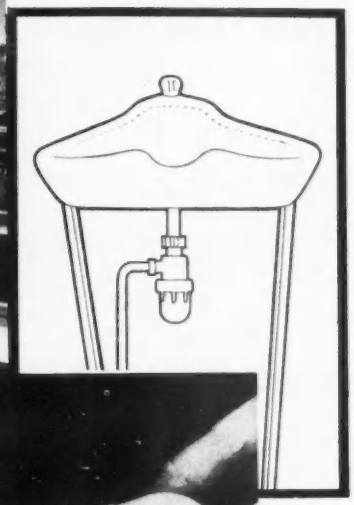
That's the time, money and labour you save with **Hardec**

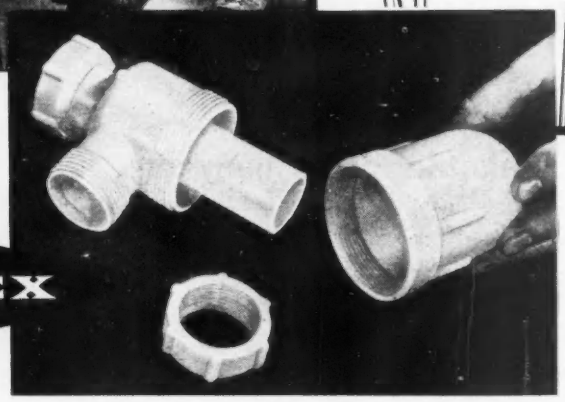
QUICKEST FIXING HORIZONTAL
OR VERTICAL PLASTIC SURFACE

★ By *balance* we mean that the plastic surface and hardboard core of HARDEC is backed by plain plastic to minimise warping.

Write for free sample:-
THE AIRSCREW COMPANY & JICWOOD LTD. DEPT. BR.15 · WEYBRIDGE · SURREY
WPS/72

chosen for Swan and Edgar's new salon





waste traps in RIGIDEX

the polyethylene plus

Among the most up-to-date features of Swan and Edgar's modern hairdressing salon in London are new type bottle traps moulded in Rigidex, the outstanding new polyethylene. Rigidex traps were preferred because of these valuable advantages:

Greater Strength Rigidex traps are tough, shatterproof, virtually unbreakable. They withstand both frost and boiling water.

More Hygienic Rigidex traps are not affected by the action of oils, grease, detergents, bleaches or common chemicals. They are quickly and easily cleaned by wiping.

Easier to Service The threads of Rigidex traps never rust or corrode . . . always stay free-running, ensuring easy removal of trap for servicing.

Rigidex is the modern material that meets modern needs. To tap the supply of information about this profitable polyethylene please write for booklet No. 324

Rigidex is a reg'd trade mark of British Hydrocarbon Chemicals Ltd Bottle traps in plastics manufactured by McAlpine & Co. Ltd. Kelvin Avenue, Hillington, Glasgow SW2, using Rigidex high density polyethylene

Rigidex polyethylene is one of the products manufactured by British Hydrocarbon Chemicals Ltd at Grangemouth.
Sole Selling Agents

British Resin Products Ltd A COMPANY IN THE DISTILLERS PLASTICS GROUP BRP

SALES AND TECHNICAL SERVICE DEVONSHIRE HOUSE PICCADILLY LONDON W1 HYDE PARK 0151

Distillers Plastics Serve Everyman

when they ask about insulation...

This booklet has been specially prepared to answer your customers' enquiries about domestic insulation. It covers all aspects—insulation of the attic, pipes, tanks and hot water systems—and has been designed to make the householder 'insulation conscious'. This booklet will both answer enquiries and promote new business.

give them this booklet

Send for a specimen copy, write to:—

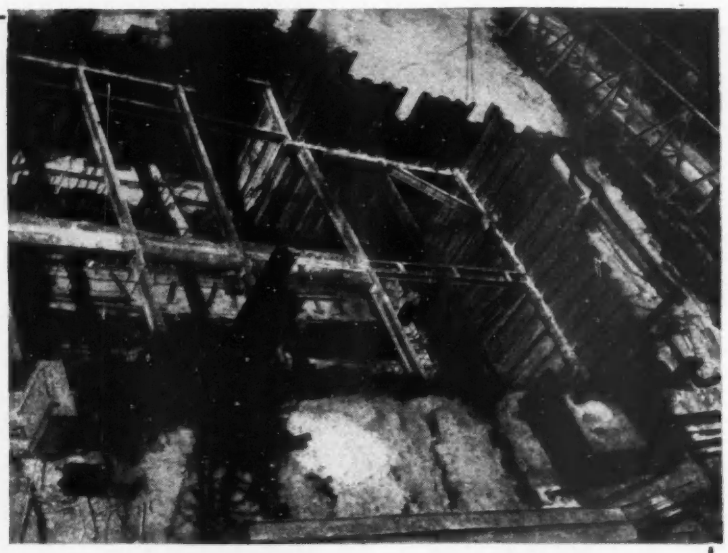
William Kenyon & Sons (MetaMica) Limited

Dukinfield, Cheshire. Ashton-under-Lyne 1614/7 & 3673/6

manufactured by **THE CAPE ASBESTOS COMPANY LIMITED**, 114 & 116. Park Street, London, W.1.

TA3625

STEEL SHEET PILING OF EXCAVATIONS by



W. A. DAWSON LTD.

ALSO
WE HAVE SPECIAL EQUIPMENT FOR
DEALING WITH THE SMALLER JOB

SUNDON PARK, LUTON LUTON 52203

Site Huts

We can quickly supply Redwood Weatherboard Site Huts in standard sizes, or to your own specification, as already used by many leading contractors.

Photograph by courtesy of Alexander Finley & Co. Ltd., Motherwell.

FREE DELIVERY
ENGLAND & WALES

L. & D. ABLESON LTD

SHEEPSCAR CORNER, LEEDS 7
Tel: 31509 & 25637

Rol-over-dor

the strongest and most easily operated garage door

PRICES FROM £17 EX. WORKS
PROMPT DELIVERY

The Rol-over-dor is made stronger to last longer. 24 gauge hot galvanised interlocking steel slats form a continuous full width joint giving great strength and rigidity. The unique design operated by counter-balanced springs gives finger-tip control.
No weights! No pulleys!
The Rol-over-dor is supplied complete with all the necessary operating gear and with lock. Three sizes:- 7 ft. wide x 6 ft. 6 ins. high, 7 ft. x 7 ft. and 8 ft. x 7 ft.

For fully descriptive literature write or telephone:

Haskins

Brook Street
Basingstoke
Telephone 1070

made by Haskins

MAKERS OF THE WORLD FAMOUS ROLADOR SHUTTERS

Ready for use - and so easy to handle!

FOR SO MANY CONSTRUCTIONAL PROBLEMS

RESOBOARD

Wood chips bonded with a synthetic resin glue—excellent core material for veneers or plastic. Sound absorbent heat resisting.

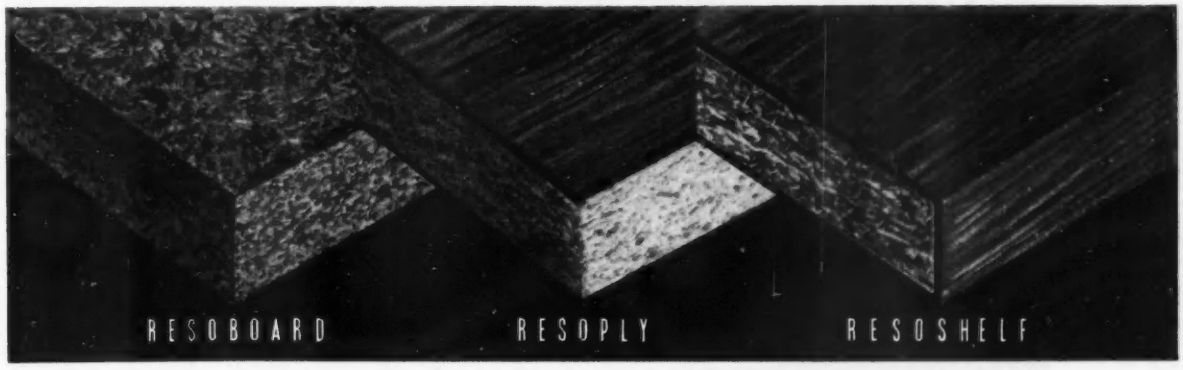
RESOPLY

Agba both sides with a core of wood chips bonded with a synthetic resin glue. Can be used as it is on normal woodworking machinery with standard tools.

RESOSHELF

Ready-for-use shelving board Agba both sides and one long edge on a resin-bonded wood chip core. Needs no planing, sanding or smoothing, has no unsightly knots.

STRONG
RELIABLE
ECONOMICAL
AND SAFE
CANNOT
SPLIT
WARP
OR BOW
IDEAL FOR
PARTITIONS
SHELVES
COUNTERS
EXHIBITION
STANDS
ETC. ETC.

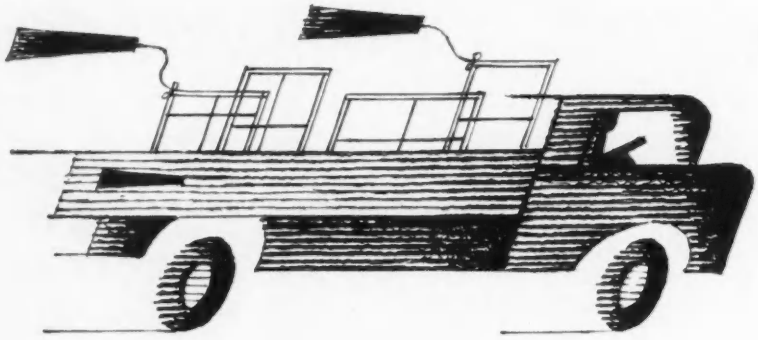


Brochure and samples from the main distributors

BY APPOINTMENT
TO HER MAJESTY THE QUEEN
GOOD MERCHANTS
JAMES LATHAM LTD.

JAMES LATHAM
LIMITED

DEPARTMENT B
LEESIDE WHARF
CLAPTON
LONDON · E.5
AMHERST 5533



IMMEDIATE DELIVERY

METAL WINDOWS

EX STOCK

Improved stock carrying arrangements allow 100 Williams & Williams stockists in all parts of the U.K. to offer immediate delivery from stock of *RUSTPROOFED* standard metal windows in the popular sizes. Any special requirements obtained for you on quick and certain delivery.

Write for the name and address of your local stockist to:

Dept. S.M. Williams & Williams Ltd., 37/9 High Holborn, London, W.C.1

WILLIAMS & WILLIAMS

ALL THE METAL WINDOWS YOU WANT WHENEVER YOU WANT THEM

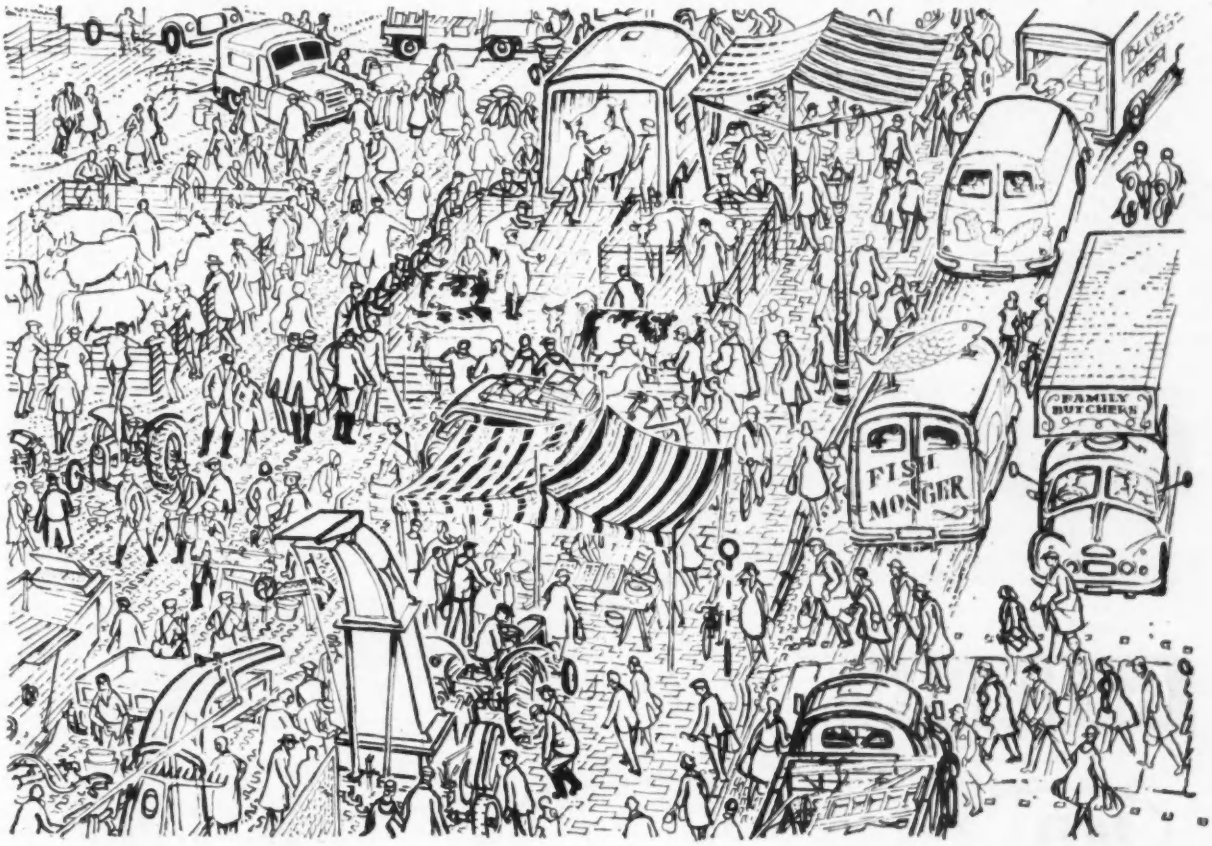
Williams & Williams make steel windows of every description, ALOMEGA and other aluminium windows, ROFTEN movable steel partitioning, ALUMINEX patent glazing, WALLSPAN curtain walling and many other products, all of which can be seen at our permanent exhibition at 36 High Holborn, London, W.C.1.

WILLIAMS & WILLIAMS, RELIANCE WORKS, CHESTER. * WILLIAMS HOUSE, 37-39 HIGH HOLBORN, LONDON, W.C.1

DUNLOP tyres

really stand up to YOUR job

—and save money!



Trucks, lorries, light vans, floats—these are the vehicles with the 'knockabout' routine. Long hours, big mileages, working to schedule on fixed routes whatever the going, continuous stopping and starting—all the things that are hardest on tyres. *Replace always with DUNLOP*—tried, tested and proved to withstand all these conditions and, in 'the long run', to give you greater mileage and an appreciable reduction in operating costs.

* Dunlop tyres are always available — without delay. There is a Dunlop depot near your supplier with tyres of *all sizes in stock*.
* Your supplier can give you full details and specifications of individual tyres or the whole range.

Replace always with DUNLOP — and it won't be so often!

CPH/H60/408

a most *comprehensive* service

contract hire *by* British Road Services

B.R.S. (CONTRACTS) LTD

The contract hire service offered by British Road Services provides an ideal facility for those businesses requiring their own specialised transport and without capital outlay.

B.R.S. (Contracts) Ltd operate many hundreds of vehicles on contract for a wide section of the leading industrial and trading concerns in the British Isles.

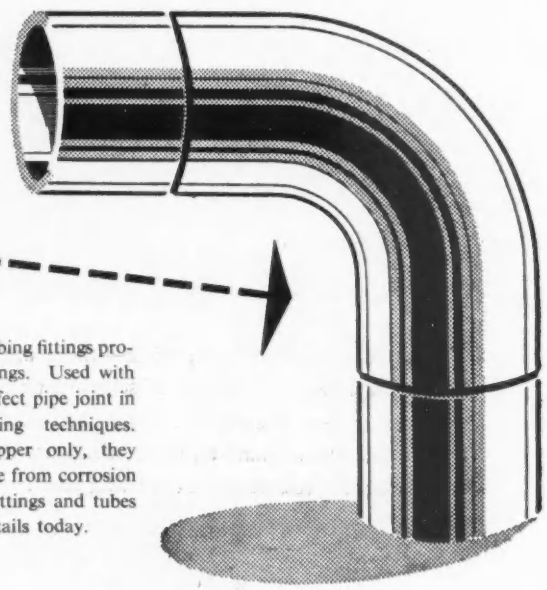
The attractive appearance of the vehicles and the comprehensive and specialised facilities provided give these users a distinction in their transport arrangements that brings credit to themselves and to British Road Services.

An illustrated brochure is obtainable from any B.R.S. Divisional or District Office, or from **B.R.S. (Contracts) Ltd**
Melbury House, Melbury Terrace,
London NW1
Telephone: Paddington 1161.

Our representatives are always available to give advice and assistance.

Neat

Reliable



MBL

CAPILLARY FITTINGS AND COPPER TUBES

Yes, the neatest and most reliable plumbing fittings produced today are MBL Capillary Fittings. Used with MBL Copper Tube they form the perfect pipe joint in keeping with contemporary building techniques. Furthermore, being made from copper only, they provide the neatest of connections free from corrosion or contamination. A full range of fittings and tubes is always in stock. Write for full details today.

THE MINT, BIRMINGHAM, LTD., BIRMINGHAM, 18

Telephone: CENTRAL 7742 *Telegrams*: 'MINT', BIRMINGHAM

LINER

ROLPANIT

Regd.

ROLLER PAN MIXERS

The original...
and still the best
for 8 good reasons!

- Mixes sand-lime mortar, cement-sand mortar, haired plaster and breeze and clinker.
- High Strength Mortar in one minute mix.
- Maximum crushing strength in one minute.
- Rolpanit mixes mortar eight times faster.
- Mortar is absolutely uniform every batch.
- 25% more bricks laid with Rolpanit Mortar.
- Rolpanit Mortar goes 33⅓% further.
- There is no wastage with the Rolpanit.

ROLPANIT MIXERS
SPEED THE JOB—LOWER THE COST!

There's a size for your requirement ... ask for details

HIRE PURCHASE TERMS—ONLY 10% DEPOSIT

Please send full details of items marked 'X'

○ ROLPANIT MIXER ○ HOPPER FED T.D. MIXER ○ HYDRAULIC N.T. MIXER
○ PORTASAW ○ HAND FED T.D. MIXER ○ ROUGHRIDER DUMPER

Name .....

Address .....

..... 160

THE LINER CONCRETE MACHINERY CO. LTD.

160 PARK ROAD, GATESHEAD, 8. Phone: 72501. Grams: "Liner", Gateshead"
London Office & Showrooms: Liner House, 2, Lexden Road, Acton, W.3.

Also at Birmingham, Manchester, Liverpool, Bristol, Leeds, Grantham, Accrington, Torquay, Glasgow, Dundee, Belfast, etc.

strength with economy

'BONDENN'

BRICKWORK REINFORCEMENT

— makes strong walls with fewer bricks

'Bondenn' Reinforcement ends the need for thick, expensive brick walls. 4½" brickwork strengthened with 'Bondenn' in many cases replaces ordinary 9" walls. Result — substantial savings in bricks, cement, labour and time.

'Bondenn' in brickwork increases the resistance to load by 68% — an invaluable advantage when foundations stand in made-up ground or doubtful subsoil and in structures where heavy and intermittent loads are applied.

'Bondenn' consists of rolls of straight longitudinal steel wires of 25/30 tons tensile secured with mild steel spacing wires. Hot spelter galvanising after fabrication ensures high resistance to deterioration.

BOULTON AND PAUL

Write now for full technical information to

Boulton & Paul Ltd.

NORWICH P.O. Box 5, Riverside Works, Norwich. NOR 72A
Telephone: Norwich 25251. Telegrams: Boulpaul, Norwich
LONDON 84-86 Baker Street, London, W.1. Telephone: HUNter 3281
Telegrams: Boulpaul, Wesdo, London
TIPTON P.O. 11, Midland Works, Tipton, Staffs
Telephone: Tipton 1191/2 Telegrams: Boulpaul, Tipton

B.20

Manufactured specially for the BUILDING TRADE

- **EASILY CLEANED**
  Set Cement, Mortar or Plaster is easily removed by simply flexing the sides and pressing the bottom.
- **CHEMICAL ACTION**
  The "RUBBATEX" is resistant to most chemicals used in the Building Industry and does not rust or corrode.
- **ACCIDENTAL DAMAGE**
  The risk of damaging baths, sinks, fireplaces, tiles, painted or polished woodwork is eliminated.
- **SAFETY ANGLE**
  Reduces the risk of accidents.
- **PREVENTION OF PILFERING**
  Can be branded with the name or initials of your Company on the base.

from **12/6** each

'RubbaTex'

RUBBER PAILS

Used by Builders everywhere and in Municipal Buildings, Hospitals, Laboratories, Housing Estates, Transport Departments, Canteens, Laundries, etc.

S. & J. H. SWINNERTON LTD.

DERBY WORKS - BURY - LANCS

VENEERED PLYWOOD

WE ARE

SPECIALISTS IN VENEERING

BOARDS - PANELS - FLUSH DOORS

IN ALL SPECIES OF WOODS

YOUR ENQUIRIES ARE INVITED

CITY VENEERING MILLS Ltd.

1a KINGSWAY ESTATE,
ANGEL RD., EDMONTON,
LONDON, N.18.
Telephone: EDMONTON 6228

IN USE ALL OVER THE WORLD

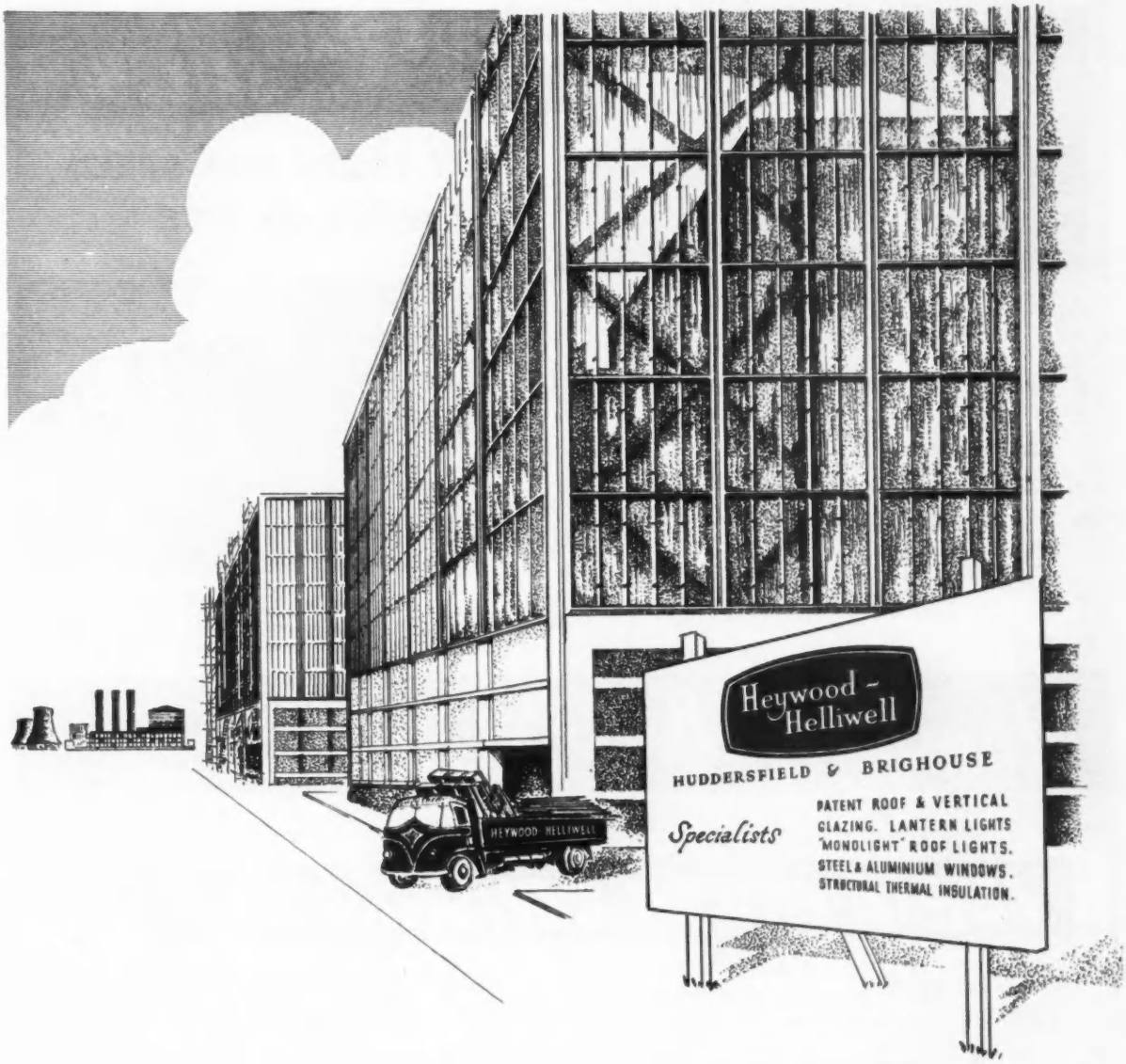
MAXIMIXAM

CONCRETE MIXERS

MODEL 2TM (3/2 cu. ft.)
powered by 1 H.P. Villiers or JAP Petrol engine
£89-0-0

Write for fully illustrated catalogue of our complete range of machines

F. O'BRIAN & CO LTD
CROWN ENGINEERING WORKS · SWADLINCOTE · BURTON-ON-TRENT
TELEPHONE: SWADLINCOTE 7588



1890 ESTABLISHMENT 1960 PROGRESS

A LIFETIME OF DAYLIGHTING

PATENT GLAZING : bars with galvanised steel core fully lead clothed or, alternatively, with zinc or aluminium capping. Aluminium alloy bars with lead or aluminium wings.
Trouble-free and long life daylighting conforming to the newest architectural trends in industrial building design and cladding techniques.

EFFICIENT SITE ORGANISATION and service ensure that the high quality material is also fully represented in the fixing and installation.

THE EXPERIENCE OF 70 YEARS with progressive technical research, contributes to the architect's skilful handling of daylight, with quality and the surety of

—— DAYLIGHTING FOR A LIFETIME

HEYWOOD - HELLIWELL LIMITED BAYHALL WORKS, HUDDERSFIELD

Flexboard Roads speed up work on bad sites and are kinder to the transport.

PORTABLE ROADS FOR SALE & HIRE

CUT COSTS AND SPEED UP WORK ON SITE

- YOU CAN HIRE **100 YARDS** OF ROADWAY BY THE WEEK FOR THE COST OF **ONE MAN'S WAGES.**
- WE CAN PUT A ROAD ON TO YOUR SITE WITHIN 24 HOURS.

A sea of mud presents no difficulty to a Flexboard road and saves hundreds of man hours.

FULL DETAILS FROM

THE DESIGNERS AND MANUFACTURERS OF SOMMERFELD TRACK, FLEXBOARDS, PORTABLE ROADS & AIRFIELDS, ETC.

Sommerfelds' LTD.
WELLINGTON · SHROPSHIRE TEL: 1000

LONDON OFFICE: 167 VICTORIA ST S.W.1
TEL: VIC. 1000

Well worth considering for

- **Stain proofing and preserving stone masonry facings**
- **Cement additive for bonding**
- **Metal priming and colour coating for iron and steelwork**
- **Preserving asbestos-cement**
- **Bonding and hardening concrete floors**
- **Damp proof membranes**
- **Roof waterproofing**
- **Remedying damp walls**
- **Water storage tanks**

with

Calcium plumbate; zinc chromate-iron oxide; asbestos-cement primers. High gloss non-bituminous protective coloured coatings (alkyd resin media). Bituminous black and coloured coatings. Mastic and semi-mastic sealing compounds. Silicone water repellents.

RITO, RITOLASTIC & ROMANITE Products

Send for descriptive literature

Mfrs.: ANDREW MAXWELL DIVISION (The Liverpool Borax Co. Ltd.)

Maxwell House, St. Paul's Square, Liverpool 3.

Consult

COMPENTRAD LIMITED

31, Throgmorton Street, London, E.C.2

MONARCH 1257

FOR ALL

YOUR DIAMOND TOOL

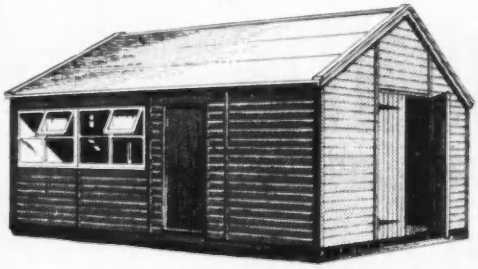
PROBLEMS FOR STONE CUTTING

(NATURAL & PRECAST)

CIRCULAR SAWS
FRAME SAWS
BLADES
DRILLS
ETC.

VH.15

LOW-COST ALL-PURPOSE BUILDING



The V.H. 15 is a Low-Cost All-Purpose Building attractive in both price and design. In 5 ft. units. Doors (single or double) and window positioned where required. Simple to erect, dismantle and re-erect.

Suitable for Offices, Stores, Canteens and Recreation Rooms.

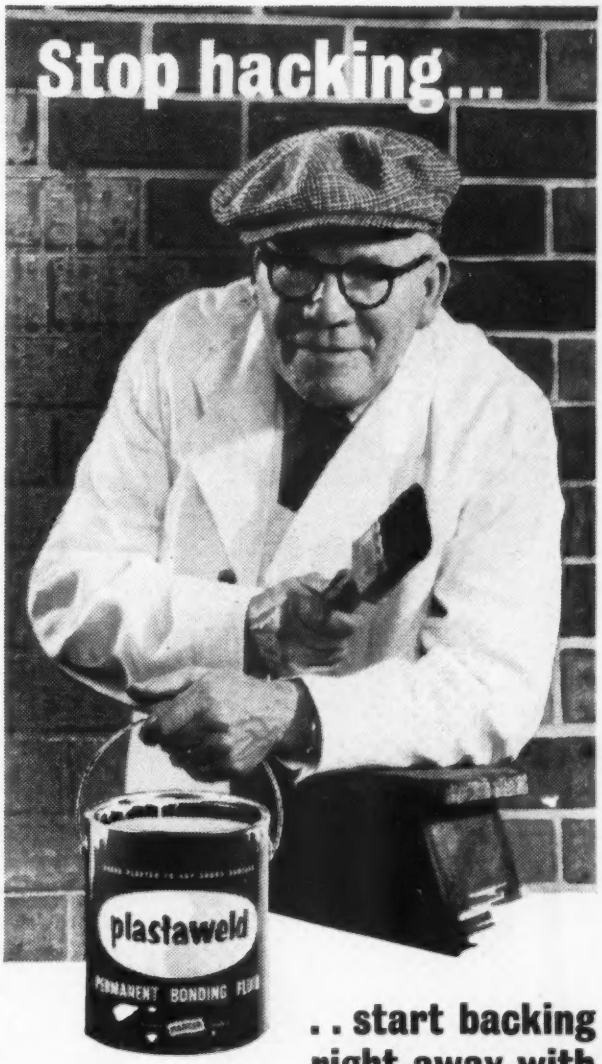
We shall be glad to arrange H.P. terms if required.

Vic Hallam Ltd

TIMBER BUILDINGS DIVISION

LANGLEY MILL, NOTTINGHAM

Telephone; Langley Mill 2301 (7 lines)



.. start backing right away with

MANGERS

plastaweld

Save hours of time and hard work by using Plastaweld permanent bonding fluid— the perfect 'key' for gypsum plasters. There's no longer any need to make a lot of noise and dust preparing the surface. Plastaweld is the key that goes on straight from the tin and is particularly effective for use on surfaces such as brick, smooth shuttered concrete, tiles, asbestos and also painted and glazed brickwork. Plaster bonded with Plastaweld goes on and stays on.

J. MANGER & SON

Dept. B, Kingsland, London E.8

Tel: CLissold 8521

AN Amasal COMPANY

Our Technical department will be very pleased to help you on any plaster-bonding problem—write or phone.

R.A.77

MASONITE
Registered Trade Mark
MADE IN SWEDEN

MASONITE

QUARTRBOARD SPECIAL

for

complete stability

Needs no pre-conditioning and can be butt-jointed without any risk of movement. It is suitable for papering or any other type of wall treatment. In addition, the board itself is very rigid and will take a screw in any part of the face without having to enter a batten on the back. Sizes 4′ x 12′, 9′, 8′, 6′.

Samples sent on request

MASONITE LIMITED

BEVIS MARKS HOUSE. BEVIS MARKS, LONDON, E.C.3
Tel: AVEnue 2846 Grams: Etinosam, Fen, London

For easy handling;
fine floors,
and fine service.

THE Crockatt 10 INCH SANDER

Here's a machine that's really built to take the rough and make it smooth. It is bristling with features that make it the ideal choice for you. An efficient Dust Extractor is incorporated. The 10 in. Drum belt drive ensures that you never mark a floor. You can adjust the depth of cut easily and quickly. Supplied for Electric or Petrol Drive. Write for full details.

ALSO: Terrazzo Surfacing Machines, Valve Reseaters, Electric Salinometers, Feed Water Filters, Boiler Tube Brushes, Cheese Curd Agitators, etc. Literature on request.

W. CROCKATT & SONS LTD.

DARNLEY STREET, GLASGOW, S.1., SCOTLAND.

There is nothing to equal

LEAD

for roof coverings

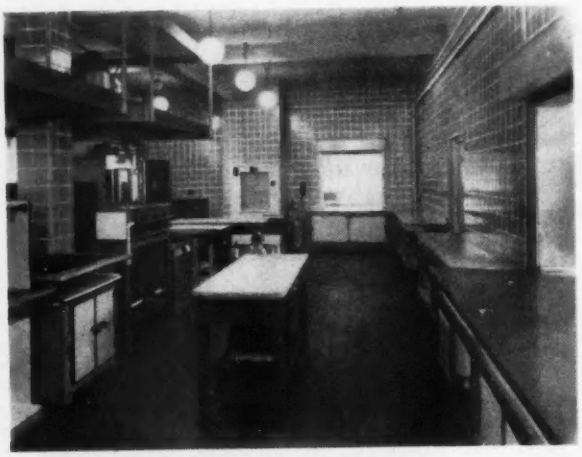
LEAD DEVELOPMENT ASSOCIATION

18, ADAM STREET, LONDON, W.C.2. *Telegrams:* Leadevep, Rand, London. *Telephone:* WHItehall 4175

h

THE LEAD SHEET & PIPE TECHNICAL INFORMATION BUREAU

advises on the use of Lead in building work. Most of the many uses are detailed in the Association's publications, and in addition the Bureau's technical officers are always glad to give individual assistance.



Photograph by courtesy of Richard Lloyd Ltd., Birmingham.
Tiling contractors: Midland Tile Co. (Stourbridge) Ltd., and William Weaver (Bromsgrove) Ltd.

Easier to lay...

Photograph by courtesy of Rolls-Royce Ltd.
Tiling contractor: Pegg & Steventon, Derby.

easier to clean...

AND THEY WEAR FOR GENERATIONS

WOOLLISCROFT Tiles are double-ground. This gives them a firmer, finer texture for long life and easy cleaning, and ensures uniform size and finish for quicker laying. Many famous firms always specify WOOLLISCROFT'S. Write for illustrated booklets W.60 and W/WFT.

That's why famous walls and floors wear

WOOLLISCROFT

Double Ground Wall & Floor Tiles

GEORGE WOOLLISCROFT & SON LTD., Dept. B, Hanley, Stoke-on-Trent.

PLASTER *-plus!*

For long recognised as the most satisfactory internal finish, plastering can now make a much more valuable contribution to building construction.

'SIRAPITE' *(Regd.)*
LIGHTWEIGHT PLASTERS

are factory-mixed and combine the important physical properties of the various 'Sirapite' plasters and Perlite or Vermiculite lightweight aggregate. They offer the following advantages :—

LESS WEIGHT
on the building, and for the operative to handle.

LESS HEATING REQUIRED
Heat loss through walls is reduced, surface warming expedited, condensation and pattern staining minimised.

FIRE RESISTANCE
The natural fire-resisting property of Gypsum plaster is further improved by the addition of Vermiculite or Perlite.

CRACKING MINIMISED
thanks to the resiliency of the aggregate.

STRICT UNIFORMITY
Factory mixing ensures correct proportions of plaster and aggregate. Only needs the addition of clean water.

EASIER PREPARATION
Mixing can be done inside a building, without interruption by bad weather.

An important advance by the makers of 'SIRAPITE' PRODUCTS

Please ask for literature

THE GYPSUM MINES LTD

Kingston-on-Soar, Nottingham.
Telephone: Gotham 364/5

Mountfield, Robertsbridge, Sussex.
Telephone: Robertsbridge 234

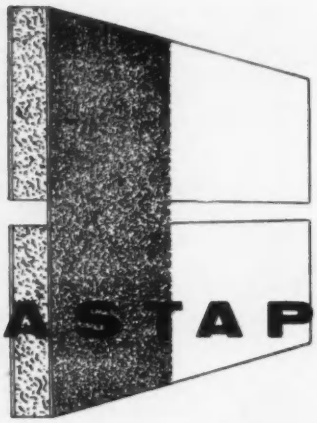
A BETTER OUTLOOK THROUGH RIPPER WINDOWS

Write today for our free catalogue of standard windows, doors, external and internal door frames, linings and kitchen units, to Dept. B. 24/6.
Rippers knowledge and experience are at your service.

RIPPER WOODWORK

RIPPERS LIMITED

CASTLE HEDINGHAM, HALSTEAD, ESSEX. TELEPHONE : CASTLE HEDINGHAM 191 (4 LINES)
TELEGRAMS : RIPPERS, CASTLE HEDINGHAM
LONDON OFFICE : 9 SOUTHAMPTON PLACE LONDON W.C.1. TELEPHONE: CHANCERY 8306/7



PLASTAPAK

can be readily applied across gaps, between boards and between door and window frames and plaster walls.

'Plastapak' has been developed by the 'Cocoon' and 'Texikoon' teams, whose skill and technical 'know-how' protected the Royal Navy's battleships and the aero-engines of the R.A.F.

The 'Plastapak' system enables a continuous film to be spray applied to rooms and buildings of orthodox construction to provide:—

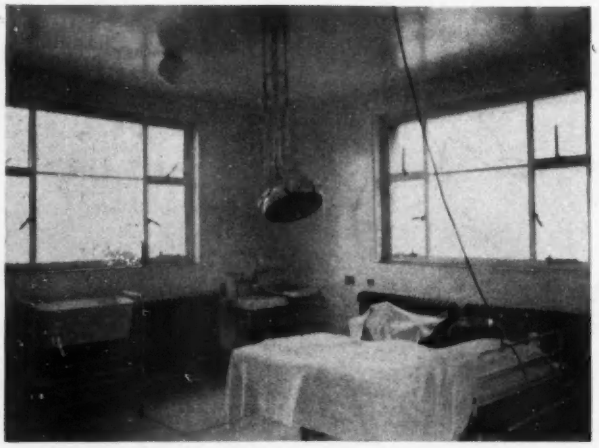
(a) A moisture vapour barrier on the warm side of porous insulation board, thus preventing condensation on roofing, walls, etc.

(b) Absolute sealing of rooms which must be maintained at constant temperature and humidity.

(c) A dust barrier on walls, roofs, etc., in areas where electronic assembly or chemical formulation work is done.

(d) A washable aseptic coating on plaster and other porous surfaces for use in laboratories, hospitals, etc.

'Plastapak' provides a barrier giving a performance which is in excess of that recommended by the Building Research Station, Department of Scientific and Industrial Research. It has been proved to have a life of many years under severe conditions of temperature and humidity.



The walls and ceiling of the labour ward of a maternity hospital, shown in the above illustration, have been treated with "Plastapak" to provide a washable aseptic coating.

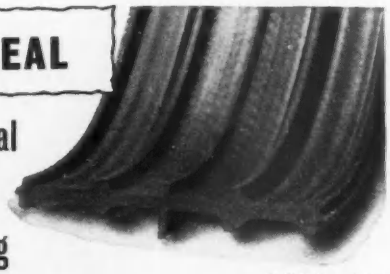
Complete protection demands a Brand technique

R. A. Brand & Co. Ltd.

Works Road, Letchworth, England.
Telephone : Letchworth 1990.

'Plastapak' is the registered Trade Mark of R. A. Brand & Co. Ltd.

DURASEAL



is the ideal material for sealing construction joints in tunnel linings and other concrete structures against water-*and this is why*

British Patent Nos. 646268 775558

DURASEAL is designed for use at construction joints or other situations where, as a result of shrinkage of the concrete during setting, hardening or cooling, "hair cracks" are likely to form—it is particularly suitable for sealing the concrete lining of tunnels.

- *The central flange of the specially designed section facilitates fixing to the shuttering.
- *The ribs ensure effective bonding to the concrete.
- *DURASEAL is made from the same tough, flexible PVC as DURAJOINT expansion jointing strip.

DURASEAL is available in a width of 5" for water pressures of up to 75 ft. head. Full details are contained in our booklet "Durajoint and Duraseal". Please write for a copy.

DURASEAL is the ideal waterstop

Durajoint and Duraseal are regd. trade marks.

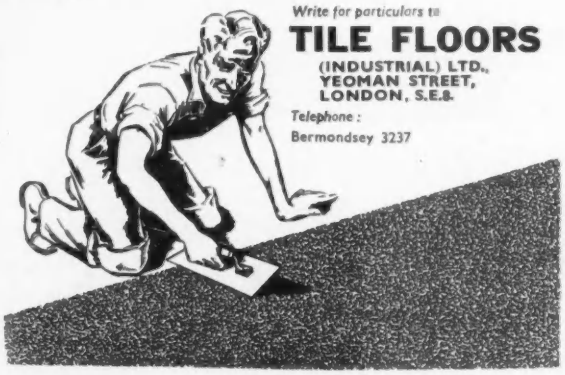
m and i The Micanite & Insulators Co., Ltd.,

BLACKHORSE LANE, WALTHAMSTOW, LONDON, E.17.
Tel: Larkswood 5500 Grams: Mytilite, London, Telex. Telex: 25183

LEVELTEX

SCREEDING COMPOUND

Is a means of levelling uneven surfaces, i.e., concrete, granolithic, floorboards, Tiles, Flagstones, Brickpaving, etc., to receive Floor-finishes such as Linoleum, carpets, wood-block, parquet, cork tiling, etc., with a minimum of thickness. It can be laid from $\frac{1}{16}$" to $\frac{1}{4}$" thickness and can be trowelled to a "feather-edge." Setting time is approximately 5—7 hours and hardening time 12—14 hours according to atmospheric conditions.



Write for particulars to

TILE FLOORS
(INDUSTRIAL) LTD.,
YEOMAN STREET,
LONDON, S.E.8.

Telephone :
Bermondsey 3237

think of TIMBER BUILDINGS...

(*Above*) CLUB HOUSE, 80ft. x 40ft. (*Right*) LOGGIA AND TUCK SHOP. *Photographs by courtesy of Harts Holiday Club, Leysdown, Isle of Sheppey.*

This splendid Club House is another example from Thorns specialised systems of pre-fabrication in timber. Thorns range includes contemporary and traditional designs in sizes from 8 ft. to 30 ft. and in any length.

Full details of these buildings are shown in our new catalogue, which is unique, in that it gives at a glance, sizes prices, plans and specifications of all Thorns building systems and is available, free, to bona fide enquirers.

... think of

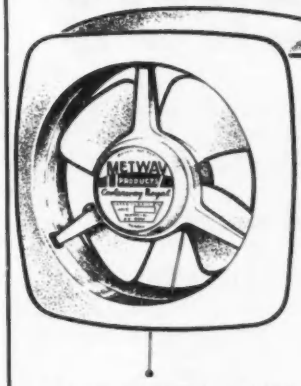
THORNS

J. THORN & SONS LTD, (DEPT. 166), BRAMPTON ROAD, BEXLEYHEATH, KENT

B.D.641.

"COOLERWAY ROYAL"

'NEW LOOK' EXTRACTOR FAN by METWAY



- **IMPROVED DESIGN**
- **STREAMLINED APPEARANCE**
- **EASIER TO CLEAN**

But still incorporating the features of the well-tried Coolerway Fan.

Price

£6.19.6

3 speed regulator 38/- extra.

★ Many a beautiful kitchen is spoilt by unpleasant odours and condensation—the 'Coolerway Royal' is the perfect answer.
★ Its sleek, white enamelled appearance will adorn any kitchen.
★ Its dust' and rust proof, TV suppressed and requires no maintenance. Guaranteed 12 months.
★ It consumes no more electricity than a 25 watt lamp.
★ Installation is simple, with full instructions.

The standard 'Coolerway' Fan will continue to be available at £5.19.6.
Obtainable from all reputable Builders' Merchants and Electrical Wholesalers.

For details ask for Cat. No. DAR/28/TB.

METWAY • KEMP TOWN • BRIGHTON

Note : New Telephone No. Brighton 66433

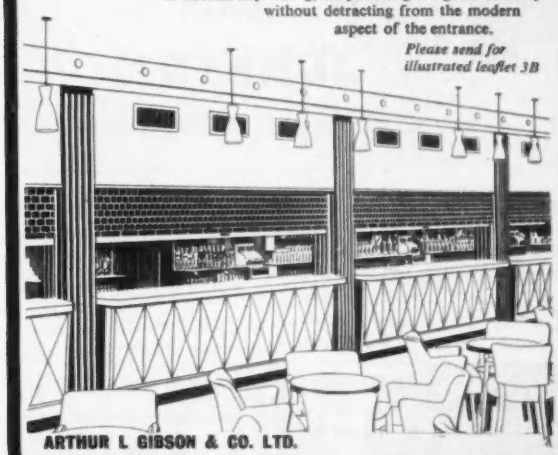
KINROD GRILLES

by the makers of Kinnear Shutters and Kinylon Grilles

solve the problem

of combining complete protection with an attractive appearance. Although the Kinrod Grille is enormously strong, its pattern gives good visibility without detracting from the modern aspect of the entrance.

Please send for illustrated leaflet 3B

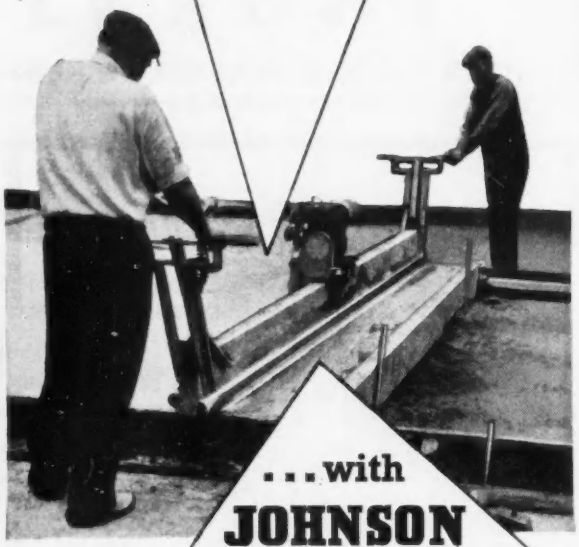


ARTHUR L GIBSON & CO. LTD.

Twickenham, Middx. Tel. Popesgrove 2276. Birmingham: Highbury 2804
Glasgow: Halfway 2928 Manchester: Central 1008 Cardiff 51428

You get so much more for your money...

- ★ 4 times the output of hand tamping with reduced operator fatigue.
- ★ Compacts and screeds in one operation.
- ★ Vibration assists forward motion.
- ★ Compaction depths up to 8 inches. Widths up to 24 ft. 0 ins.
- ★ Special 'J' type screed board shoeing improves efficiency and finish.
- ★ Readily and cheaply adaptable to varying widths and cambers.
- ★ Reliability proved on thousands of building sites throughout the world.
- ★ Service and Spares within 24 hours.



...with **JOHNSON** screed vibrators

JOHNSON QUALITY PAYS

FOR DUMPERS · MUD PUMPS
CENTRIFUGAL PUMPS · POWER RAMMERS
POKER VIBRATORS
SCREED VIBRATORS · FIXED & MOBILE CONVEYORS

C. H. JOHNSON (Machinery) LTD STOCKPORT CHES.
Telephone: STOckport 2642/5 Telex 66-297
Telegrams: 'Machinery' Stockport

London Sales and Service Depot: 38/44 Lower Richmond Road, S.W. 14. Telephone PROspect 7671
Scottish Sales and Service Depot: 55 Arrowsmith Avenue, Glasgow W.3. Telephone Scotstown 6933

UPWARD OPENING DOOR

BY **Austins** with Henderson GEAR for less than £18-0-0

LIGHT-PERFECT IN BALANCE
OPENS AT A TOUCH
OPERATES SILENTLY AND GENTLY

AUSTINS OF EAST HAM LIMITED
LONDON, E.6 GRANGEWOOD 3444-9
B.64

SCREEDS

Sand and Cement, Lightweight Roofing and Floor Screeds laid by experts with knowledge of Roofing and Flooring Trade Requirements.

By

SPECIALIZED SURFACES LTD.
7/9 THE BROADWAY, LONDON W.6
Riverside 7881
BRANCHES AT LINCOLN & LIVERPOOL

HOUSING AT MANCHESTER

Outwood Road, Cheadle and Gatley Overspill Development

A. Mackenzie, A.R.I.B.A. Previous Director of Housing

GENERAL CONTRACTORS

T. Costello Ltd.

334, Wellington Road North, Heaton Chapel, Stockport

Telephone: HEA 2626

Illustrated in this issue

THE NEW LOOK LINER CADET

the little mixer with the big capacity!

MK 2
½ BAG SIZE
CADET MIXER
WITH PETROL ENGINE OR ELECTRIC MOTOR

FROM **£80**

H.P. TERMS ONLY 10% DEPOSIT

THE LINER CONCRETE MACHINERY CO. LTD.
351, PARK ROAD, GATESHEAD, 8. *Phone: 72501. Grams: 'Liner, Gateshead'*
London Office and Showrooms: Liner House, 2, Lexden Road, Acton, W.3

Please send full details of items marked 'X'
○ CADET MIXER ○ HYDRAULIC KON-TILT MIXER ○ PORTASAW
NAME .....
ADDRESS .....
351 .....

FOR NEW BUILDING

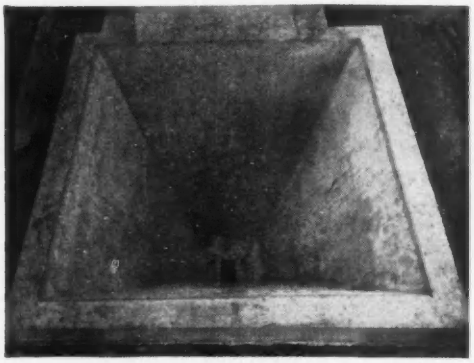
Think zinc, the versatile metal for building applications, from a complete roof to flashings and porch hoods. Easy to form and fix, it is an economical and durable metal which blends happily with all architectural styles. A modern building material, zinc has been proved in service for more than a century.
ZINC AT YOUR SERVICE. For further information write to the Zinc Development Association, 34 Berkeley Square, London, W1

THINK ZINC

Ingenuity

This large greenhouse was constructed by Messrs. C. Zwetsloot & Sons with their Nursery labour. The structural framework is iron tubing with welded joints and conveys hot water from a stand pipe with flexible coupling. When the plants have finished flowering, the whole of the greenhouse is moved forward to ground previously planted. It is transported over pulley wheels fixed in line on dwarf concrete piers, the heat being uncoupled and re-connected to a stand pipe in the new position.

When additional greenhouses called for a larger Boiler House with an elevator pit, this too was constructed with Nursery labour. The depth of the pit is 16′ 6″ from ground level and, upon excavating, subsoil water was found at a depth of 7 ft. and water bearing sand at 13′ 6″.



Completed pit surrounded by 9′ 6″ head of subsoil water.

Waterproofing was effected by the inclusion of 4 lbs of 'PUDLO' Brand Waterproofer to each 100 lbs of cement in a 3 : 2 : 1 mix. A copy of the specification and descriptive Booklet will be sent upon request.

WORK CARRIED OUT BY
C. Zwetsloot & Sons, Nurserymen & Farmers, Tempsford Road, Sandy, Beds.

ARCHITECT
Fred C. Levitt, L.R.I.B.A., Chartered Architect, Commerce House, Biggleswade, Beds.

'PUDLO'

CEMENT WATERPROOFING POWDER

Stocked by most Builders' Merchants

OTHER 'PUDLO' BRAND PRODUCTS INCLUDE :—
Waterproof Cement Paints
Cement Paint Primer
External Water Repellent
Cement Bonder
Plaster Bonder
Frost Protector/Rapid Hardener
Mortar Plasticiser
Cement Hardener/Dust Proofer
Feusol Fire Cement

The word 'PUDLO' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Brand are manufactured. *Sole Proprietors and Manufacturers*

KERNER-GREENWOOD & COMPANY LTD · KING'S LYNN · NORFOLK

Telephone: King's Lynn 2293

News Summary

1175 *A full report is given of the proceedings at the British Architects' Conference, held at Manchester last week, together with summaries of the papers contributed and the subsequent discussions.*

1184 *The conditions of the international competition for a new Library at Trinity College, Dublin, are now available from the Competition Registrar.*

1189 *The value of new work commissioned of private architects in the first quarter of 1960 reached a new high level.*

1190 *The NFBTE urges the Housing Minister to give more favourable consideration to allowing house building on the fringes of the green belts and to infilling in existing villages and towns in the green belts.*

1195 *'The Ministry of Transport is hopelessly behind its job' Sir Thomas Bennett told the Conference.*

1197 *The London County Council hope shortly to submit proposals for the completion of the Royal Festival Hall on the South Bank.*

1198 *Confidence in the future and satisfaction at the high level of building work at present available in the eastern counties were expressed by the President of the Eastern Federation in his half-yearly review.*

1198 *The first of the new, safer oil heaters made in accordance with BS 3300 are now coming off the production line.*

'Late News' will be found overleaf, and 'News of the Week' on page 1189

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. June 24th 1960 No. 6110

Published from 'The Builder' House, Catherine-street, Aldwych, London, WC2. Telephone: Temple Bar 6251-2-3-4. Annual subscription: £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

PRINCIPAL CONTENTS

ILLUSTRATIONS

PAGE

1178 Granada Television Centre, Manchester. By Ralph Tubbs

1181 Housing Developments in Manchester. By J. Austen Bent

1185 Aer Lingus Booking Office, Manchester. By Cruickshank & Seward

1186 Architecture at the Royal Academy Summer Exhibition, 1960

1188 Poultry Processing Factory, Aldershot. By M. R. Ferguson

ARTICLES

1175 A Manchester Diary: Events at British Architects' Conference

1177 'Rebuilding Our Cities': Conference Papers and Discussion

1184 Letters to the Editor

1184 Competition News: Library Building, Trinity College, Dublin

1197 London County Council: Completion of Royal Festival Hall

1197 RFAC: Views on Brighton Development Schemes

1198 The Eastern Federation: President's Half-Yearly Review

1199 A Prestressed Concrete Hangar at Bombay

1200 Finding the Road Back: Vocational Training in Prison

1202 Town Planning Institute: Newcastle-upon-Tyne Meeting

In Urban Renewal Inquiry?

BAN RENEWAL, which cknowledged a very nd from the interest ject, in the national . There is no doubt gave an edge to the Parliamentary Secre- l Local Government, he second morning, he architectural pro- d in a subject that is l as amenity stand- owers to meet the development appear

nakes itself felt. Sir ice as being satisfied lequate to give plan- he whole weight of nce was against him, orce to the body of , which believes that complete review of f planning in central ws, that the Minister MR. BROOKE, has set nto problems on the experiments. Is this ommittee with much wider powers and of a comprehensive character to do for Urban Redevelopment what the Reith Committee did for New Towns? The conference, almost to a man, believes that the case has been made out, and it is hoped that Sir Keith and his Minister will act upon the advice.

Of one danger planning-legislators should steer clear: that which must inevitably follow the all too-easy solution offered by public authority acquisition and development of central sites. Such a course is administratively attractive; not only does it provide revenues to the municipality but it can solve the worst difficulties presented by betterment. The danger is, of course, that such procedure is a step down the slope towards totalitarianism, and as such its convenience will be dearly bought. But there is much in Mr. Ling's suggestion that local authorities should be assisted to acquire central areas and invite redevelopment proposals from private developers, initially on an amenity basis, and secondarily only on financial considerations.

Whatever plan be followed, it must fall short of perfection until the question of roads layout and traffic control is satisfied. It is a pity that there was no official representative of the Ministry of Transport present to hear the outright condemnation by SIR THOMAS BENNETT and many other speakers of the lack of guidance of which that Ministry stands accused. If the Manchester conference does no more than to bring home the fact that architecture, planning and road and traffic control stand together at the centre of the problem of Urban Renewal it will have justified itself.

Ingenuity

This large greenhouse was constructed by Messrs. C. Zwetsloot & Sons with their Nursery labour. The structural framework is iron tubing with welded joints and conveys hot water from a stand pipe with flexible coupling. When the plants have finished flowering, the whole of the greenhouse is moved forward to ground previously planted. It is transported over pulley wheels fixed in line on dwarf concrete piers, the heat being uncoupled and re-connected to a stand pipe in the new position.

When additional greenhouses called for a larger Boiler House with an elevator pit, this too was constructed with Nursery labour. The depth of the pit is 16′ 6″ from ground level and, upon excavating, subsoil water was found at a depth of 7 ft. and water bearing sand at 13′ 6″.

Waterproofin
of 4 lbs of 'Pl
each 100 lbs
A copy of tl
Booklet will l

WORK CARRIED
C. Zwetsloot
Tempsford Road,

ARCHITECT
Fred C. Levitt, L
House, Bigglesw

'PUDLO'

CEMENT WATERPROOFING

Stocked by most Builders' Merchants

The word 'PUDLO' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing

KERNER-GREENWOOD & COMPANY LTD

Telephone: King's Lynn 2293

Late News

RIBA Council Elections

AT THE GENERAL MEETING of the Royal Institute of British Architects held on Tuesday last, the results of the annual elections to the Council were made public.

Professor Sir William Graham Holford, MA, PPTPI, FILA, was elected President. Elected as past-Presidents were: Mr. K. M. B. Cross, MA, DCL, and Mr. Basil Spence, Kt.-Designate, OBE, RA.

AS FELLOWS (3): A. G. Sheppard Fidler, MA (Birmingham) (1,539 votes); P. F. Shepheard, BArch (1,443); and A. G. Ling, BA (Arch) (Coventry) (1,408).

AS ASSOCIATES (3): Tom Mellor, BArch (Lytham St. Annes) (1,555); W. D. Lacey, AMTPI (Nottingham) (1,408); and A. G. Derbyshire, MA (Sheffield) (1,330).

AS LICENTIATE (1): Bernard Hugh Cox, FRICS (1,484).

AS ORDINARY MEMBERS (3): Alfred George (1,299); the Hon. Lionel G. B. Brett, MA (Watlington) (1,250); and E. Maxwell Fry, CBE (1,142).

CANDIDATES NOT ELECTED: E. D. Mills, CBE (1,090 votes), Prof. J. H. Napper, MA (Newcastle-upon-Tyne) (1,064), D. B. Waterhouse (1,054), P. B. Dunham (Luton) (1,047), K. J. Campbell (1,024), C. G. L. Shankland (924), R. W. Paine (Fordwich) (888), D. E. Percival (Norwich) (844), N. H. Fowler (Leeds) (835), H. J. Whitfield Lewis (831), L. G. Vincent (Stevenage) (812), E. B. Redfern (Exeter) (809), E. D. Jefferiss Mathews (765), Miss Jane B. Drew (762), J. H. Forshaw (637), Prof. Basil R. Ward (575), Gontran Goulden (571), R. D. Scott (531), R. T. Walters (525), S. Meyrick (Welwyn Garden City) (504), and S. V. Goodman (Bedford) (380).

Piccadilly Circus Redevelopment

SIR WILLIAM HOLFORD, President-elect RIBA, is to be asked by the London County Council to advise them in the preparation of a redevelopment scheme for Piccadilly Circus.

RIBA Bronze Medal Award

THE RIBA Architecture Bronze Medal for the South Eastern Society of Architects (1957-59) has been awarded for the Bowater Paper Corporation's Engineering Research and Development Building, Northfleet, Kent. The architects were Messrs. Farmer & Dark and the contractors Holland & Hannen and Cubitts Ltd.

Death of Dr. T. Alwyn Lloyd

DR. THOMAS ALWYN LLOYD, OBE, LLD (WALES), JP, FRIBA, PPTPI, FSA, the founder of the firm of architects, T. Alwyn Lloyd and Gordon, of Cardiff, died on Sunday at Torquay, where he was on holiday. He was 78.

Motorway Contract

NEARLY five miles of motorway, with 24 bridges and a three-quarter mile all-purpose road, by-passing Stafford, are to be built in the next 23 months, the Ministry of Transport announced on Tuesday. The Minister has authorised Staffordshire County Council to accept John Laing and Son's tender of £2,680,000 for this and associated works.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. June 24th 1960 No. 6110

Published from 'The Builder' House, Catherine-street, Aldwych, London, WC2. Telephone: Temple Bar 6251-2-3-4. Annual subscription: £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

PRINCIPAL CONTENTS

ILLUSTRATIONS

PAGE

1178 Granada Television Centre, Manchester. By Ralph Tubbs
1181 Housing Developments in Manchester. By J. Austen Bent
1185 Aer Lingus Booking Office, Manchester. By Cruickshank & Seward
1186 Architecture at the Royal Academy Summer Exhibition, 1960
1188 Poultry Processing Factory, Aldershot. By M. R. Ferguson

ARTICLES

1175 A Manchester Diary: Events at British Architects' Conference
1177 'Rebuilding Our Cities': Conference Papers and Discussion
1184 Letters to the Editor
1184 Competition News: Library Building, Trinity College, Dublin
1197 London County Council: Completion of Royal Festival Hall
1197 RFAC: Views on Brighton Development Schemes
1198 The Eastern Federation: President's Half-Yearly Review
1199 A Prestressed Concrete Hangar at Bombay
1200 Finding the Road Back: Vocational Training in Prison
1202 Town Planning Institute: Newcastle-upon-Tyne Meeting

An Urban Renewal Inquiry?

THE MANCHESTER CONFERENCE ON URBAN RENEWAL, which ended on Saturday last, must be acknowledged a very considerable success, both socially and from the interest it has aroused in its important subject, in the national Press no less than among its members. There is no doubt that the Monico inquiry and report gave an edge to the proceedings, and SIR KEITH JOSEPH, Parliamentary Secretary to the Ministry of Housing and Local Government, who addressed the conference on the second morning, cannot have been left in doubt that the architectural profession as a whole is deeply interested in a subject that is becoming vital—from traffic as well as amenity standpoints—and is concerned that powers to meet the challenge of piecemeal speculative development appear to be inadequate.

It is here that some uncertainty makes itself felt. Sir Keith declared himself more than once as being satisfied that present planning legislation is adequate to give planning authorities control. Almost the whole weight of professional experience in the conference was against him, and this conflict of opinion adds force to the body of opinion, headed by MR. ARTHUR LING, which believes that there should be an immediate and complete review of the legal and financial implications of planning in central areas. It was news, and welcome news, that the Minister of Housing and Local Government, MR. BROOKE, has set up a small study group to research into problems on the ground and to make some practical experiments. Is this enough? Is there not a case for a committee with much wider powers and of a comprehensive character to do for Urban Redevelopment what the Reith Committee did for New Towns? The conference, almost to a man, believes that the case has been made out, and it is hoped that Sir Keith and his Minister will act upon the advice.

Of one danger planning-legislators should steer clear: that which must inevitably follow the all too-easy solution offered by public authority acquisition and development of central sites. Such a course is administratively attractive; not only does it provide revenues to the municipality but it can solve the worst difficulties presented by betterment. The danger is, of course, that such procedure is a step down the slope towards totalitarianism, and as such its convenience will be dearly bought. But there is much in Mr. Ling's suggestion that local authorities should be assisted to acquire central areas and invite redevelopment proposals from private developers, initially on an amenity basis, and secondarily only on financial considerations.

Whatever plan be followed, it must fall short of perfection until the question of roads layout and traffic control is satisfied. It is a pity that there was no official representative of the Ministry of Transport present to hear the outright condemnation by SIR THOMAS BENNETT and many other speakers of the lack of guidance of which that Ministry stands accused. If the Manchester conference does no more than to bring home the fact that architecture, planning and road and traffic control stand together at the centre of the problem of Urban Renewal it will have justified itself.

Notes of the Week

Cliff-Dweller Architecture; Mr. Alfred Potter to Retire; Pottery; Ancient Monuments

THAT GREAT LOVER OF LONDON, Mr. Yehudi Menuhin, the violinist, drew public attention in last Friday's 'Daily Telegraph' to 'the sacrifice of their title to the light of day, to the harmony of the skyline and to the sense of dignity which should be theirs as Londoners' implicit in the proposed erection in Park Lane, London, of the Hilton-Clore hotel. 'What is this' asks Mr. Menuhin, 'but a pale apeing of an impersonal method of stacking, suitable to a land of cliff-dwellers. . . . After all, other cities, aware of the harmony of their appearance and the beauty which must be protected—as for instance Paris—have prohibited the erection of buildings above a certain height—at least in the main characteristic areas.'

* * *

MR. MENUHIN HAS DONE WELL to express the layman's view on this proposal. No one who finds charm and relaxation in London's finest park can contemplate with indifference the loss of that precious illusion of solitude which it is still possible to capture. The loss of scale produced by a high building such as is proposed would be disastrous. We hope that this scheme, which would undoubtedly be followed by others on the north side of the Park, will be fought by all who believe that kow-towing to the tourist trade such as this must end in there being nothing worth while for the tourist to look at.

Mr. Alfred Potter to Retire

FOR NEARLY half a century no name in this country has been more closely associated with town planning than that of Alfred Potter. Beginning his professional career under the late Sir George Pepler when Sir George and Mr. E. G. Allen were in practice together before the first world war, Mr. Potter accepted the post of Secretary of the Town Planning Institute as long ago as 1914 and he has held it with marked distinction ever since. Now he is to retire. Himself a successful planner (he practised in partnership with Mr. Allen for over twenty years), his greatest achievement has been the organisation and building up of the Town Planning Institute. Some glimpse of the value and arduous nature of this work may be gained from the increase in the Institute's membership from 64 in 1914 to over 4,000 today, the establishment of nine branches covering the British Isles and three branches overseas, and affiliation with Institutes of Planning in Australia, India, New Zealand and South Africa. Mr. Potter has also acted as Secretary to the Joint Examination Board throughout its existence from 1930 to 1960, and has had much to do with the growth of the educational system and its spread to twenty other countries. In recognition of his great services to the cause of town planning he was awarded an OBE in 1949, and it must have been a great satisfaction to him that the Royal Charter, first sought in 1947, was conferred on the Institute by Her Majesty the Queen in June last year.

* * *

BY HIS SKILL and tact in the handling of the Institute's affairs, his unfailing courtesy and helpfulness to all who have sought his aid or advice, Alfred Potter has made a host of friends who, while regretting his retirement, will wish him a long and happy one. It is good to know that the Council of the Institute proposes to mark the occasion by a dinner in his honour on October 5, and by a parting gift. Details about the dinner will be sent to those who notify to the hon. secretary their desire to attend. Contributions towards the presentation in the form of crossed cheques or postal orders should be sent (not later than July 29, overseas September 2) to Maurice J. Hellier (TPI Account), 'Leafield,' 221 Duffield-road, Darley Dale, Derby.

The Art of Pottery

GOOD LUCK to the new Craftsmen Potters' Association of Great Britain—an enterprising and sensible body—writes Basil Marriott. Its place at 3 Lowndes Court, Carnaby - street, W1 — planned and equipped with an appropriate Japanes-y simplicity by David Cantor—is more than a shop: the ground floor is an exhibition space, and the below-stairs stockroom has browsing-racks for the work of individual members—their own choice without 'buyers'' baleful intervention.

The inaugural exhibition, opened by Lady Glenconner (President) on May 28 which continued for a fortnight, was of stone-ware by Ray Finch of the Winchcombe Pottery. This, as far as was visible at an encouragingly overcrowded and pleasantly youthful party, carries on the traditions of St. Ives and later progeny. It was at its best undecorated except for intrinsic attractions of material, shape and glazes.

* * *

AS WELL AS full selling membership to those with their own workshops, associate membership is open to interested amateurs. With the notable and significant new interest in the crafts—and what could be more down-to-clay than potting, to counteract handless-mindedness—this elegant small *boutique* should attract younger people particularly, and anti-dowdies generally. Well insulated from the Beatnik Belt but on the fringe of what Lady Glenconner called Soho 'Village,' they have already found there clothes more to their taste than the blazer-and-bags suburbanities of chain-haberdashers. To the arrival some time ago of a shop dealing in good, imported furniture and bits, not to mention Finmar, this new pottery shop adds exactly the right home-grown complement.

Ancient Monuments Reports

THE RATHER exiguous reports of the Ancient Monuments Boards for England, Scotland and Wales for 1959 (London: HM Stationery Office, price 1s. 6d. net), continue to stimulate more curiosity than they satisfy. For instance, there are only seventy words about the important archaeological examination of a large section of the Roman town of Catarac-

Heaton House, scene of the BA Conference Garden Party: the South elevation, and (right) The Tea Pavilion

tonium (Catterick) in advance of trunk road (A1) development, which has revealed streets, shops, baths, and massive wall defences which are said to throw fresh light on the history of the town during the centuries of Roman occupation; and only twenty-nine words about the excavations at the Tudor palace of Nonsuch in Surrey. Excellent air views of both excavations are included with the reports and whet our appetite for further information.

The total number of monuments now scheduled in England alone is stated to be 6,568, and at the current rate of progress it will take about thirty years to complete the scheduling of approximately 15,000 monuments. The Board have good reason to doubt 'whether the number of staff employed by the Ministry on scheduling is sufficient to keep up with the work although more time is being given to the task.'

Registration Council's Badge

A PLEASANT CEREMONY took place at the outset of the meeting of the Architects Registration Council held on June 8, when Mr. Howard Lobb, CBE, FRIBA, who retired from the Chairmanship of the Council at the previous meeting, handed to his successor, Mr. Alwyn Sheppard Fidler, MA, the Chairman's badge of office which he had presented. The badge, which is in gold, white gold and enamel (it was shown on page 1145 last week) incorporates the badge of the Registration Council, and at the express wish of the council will be worn by the Chairman at council meetings and formal occasions. Mr. Sheppard Fidler, in thanking Mr. Lobb, said how pleased the council were to see him back again after his recent illness, and hoped that he would soon be thoroughly fit again.

Poet's Corner

'What Manchester thinks today England will think tomorrow.'

19th-Century Political Saying.

We shall soon learn to our sorrow
The price we have to pay
If we fail to do tomorrow
What Manchester says today.

ANON.

A Manchester Diary

The British Architects' Conference

From Our Own Representative

ANY REGRETS which conference travellers by road from the south might have felt at leaving the wonderful country round Dovedale and plunging into the murk of Stockport were fast forgotten in the tremendous welcome that awaited them in Manchester. 'Hell is a City,' the current film release in the County Palatinate, may or may not in the architectural sense describe Manchester; if it does, then the analogy should be taken farther and its inhabitants, and particularly its architects, be identified with the denizens of that Underworld whom we have always suspected as being the best company.

The Interest of Manchester

Manchester had put on its best face for the occasion and its best weather (the sun shone without intermission, even over Old Trafford), and members and their wives were able to get about to the various buildings with which the Conference was concerned on foot and without even a thought about raincoats. The first visit was to the informal reception given by the Manchester Society in Charles Barry's Art Gallery, where guests were kindly welcomed by the local President, PROFESSOR R. A. CORDINGLEY and by MR. AND MRS. BASIL SPENCE. Pride of place in the Gallery had been given to an exhibition of Manchester architecture, both Victorian and recent and projected work. Brilliantly photographed and splendidly mounted, the exhibition did great credit to the sub-committee and its convener, MR. W. C. SMITH, but above all to Manchester architects whose quality is such that, given the opportunity by local government and industry, they should transform the Manchester scene in ways that will command the respect of architectural critics of 2060.

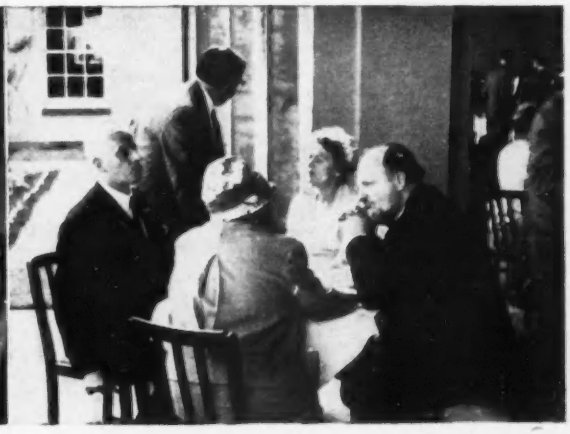
Those who would write off pre-war Manchester as being in an architectural twilight would only succeed in declaring themselves as unperceptive. For those that use their eyes there is a great wealth of fine building, not always easy to find, for Manchester does not believe in the uses of the vista, or perhaps its street layout does not encourage the best settings. Yet of European towns it is one of the few that has preserved a great open space at its very centre. Manchester's Piccadilly is very different from its London namesake. And in such buildings as the Cathedral church, Rylands Library and the Town Hall, Manchester has buildings in which any city could take pride. The town hall, where the Conference enjoyed a mayoral reception on the Thursday night, is called, and rightly so, Paul Waterhouse's masterpiece. Waterhouse claimed that the style was essentially of the 19th-century, 'a view with which those who admire 13th-century architecture and those who deplore Victorian Gothic would heartily agree,' as MR. CECIL STEWART, compiler of the admirable Conference handbook, puts it. Certainly the two grand staircases with open traceried screens and the great hall, with Ford Maddox Brown's paintings justify the word 'thrilling.'

Among those at the civic reception were Mr. Stewart himself (properly clad in the Stewart tartan) and MR. GEORGE GRENFELL BAINES, who received many congratulations on his recently bestowed honour. Mr. Baines, who had spent the week examining at Liverpool, said that he detected a new interest by students in romantic architecture accompanied by a swing away from curtain-walling. The problem, he thinks, will be to foster this interest without a return to copyism. Listening to this in Waterhouse's great building made one think how right are the Liverpool students.

The Garden Party

This hardy annual was held at Heaton Park, using Heaton House (not one of James Wyatt's best buildings) as base. The garden is after Capability Brown—a long way after, let it be said—and is

Left to right: Mr. and Mrs. James Buchanan (London), Mrs. Ian M. Leslie and Mrs. Eric Bird (High Wycombe)



The President and Mrs. Spence (right) take tea with Mr. and Mrs. Leonard C. Howitt

The Lord Mayor of Manchester (Ald. A. Donovan) presenting the Bronze Medal of the Manchester Society of Architects to Mr. L. C. Howitt, FRIBA, City Architect. In the centre is Mr. Basil Spence, Kt-Designate, President

spoilt in scale by small flower beds cut into the turf. This function's main use is for enthusiastic photographers who annually expose some hundreds of yards of film, and if the 1962 conference is recast in form, this may be one of the casualties which few would regret. But the sun did shine, in contrast to other garden parties, and there was opportunity to meet and talk with friends from many parts, and for the ladies to show their hats (of which there were some notable examples). This seems the place to mention the excellent programme laid on for the ladies by the sub-committee whose secretary was MRS. JOHN SEWARD. This included a display of flower arrangement and a mannequin parade at one of the great stores; both, one gathers, were much enjoyed, as were also the tours to Haddon Hall and Lyme Hall. Other visits were to Jodrell Bank, to the new buildings of Manchester, another for those specially interested in Victorian architecture in the city, and to the Ship Canal and the Heinz factory which E. D. JEFFERISS MATHEWS has designed at Kitt Green. These tours were arranged by a committee under MR. F. L. HALLIDAY.

The Dinner

Perversely, there were some who could have wished for Manchester's reputation for rain to be fulfilled, if only to cool down the Midland Hotel where the conference banquet was held on Friday night. So hot was the anteroom of the hotel that the sigh of relief that went up when dinner was announced by a singularly pontifical toastmaster could have been heard in the American bar. The dinner itself, not remarkable as a meal it must be confessed, was memorable as being the best feast of oratory that one remembers over many conferences, fit in fact to rank with the post-war Dublin meeting. MR. SPENCE (who received an ovation due, one would like to think, as much to his efforts over the past two years to put the profession on the map as to the knighthood he is to receive on July 5) has never been in better form than on this, the occasion of his swansong. In content as in crispness of delivery he was at his best, and indeed his contribution to the success of the business meetings was considerable, in keeping the business moving briskly.

The other speeches were equally brilliant, notably that of SIR WILLIAM HOLFORD, president-elect, who told a number of excellent stories while yet contriving to make a plea for better architectural advice in city centre development. Two of his stories about the Monico site inquiry ('the aim is to make Piccadilly a place fit for Eros to live in' and 'Piccadilly is rather like the Government statistical publication "The population of the British Isles, broken down by age and sex"') were received with shouts of joy. Altogether this was a fitting end to the official conference proceedings.

The Conference Subject

Various opinions were heard on the business sessions, but there can be only one on the publicity which the subject 'Urban Renewal' attracted: first-rate. Not only the Manchester papers but the national dailies carried good reports of the sessions and the RIBA and MR. MALCOLM MACEWEN, the chief information officer, win high praise for this. THE LORD MAYOR gave the conference a brisk start and MR. LEONARD HOWITT, who received the MSA medal for the best building of the year for his Blackley Crematorium, set the audience in a good mood with the quip that, in a building of this kind, there could be no complaints from dissatisfied customers.

Whatever the final assessment of the value of this particular conference, there can be no doubt that the subject has caught professional as well as lay interest. More open to doubt is the wisdom of inviting three speakers to open the ball. Well though each did his part, concentration on the subject of Urban Renewal, possibly in one paper, would have spotlit the essential difficulties and given more time for discussion from the floor. As it was, only about two hours in all was available for members' contributions, and there must have been many who came with views to express who did not get the chance to express them. There may well be support for the idea that the 1962 conference (next year will be the IUA congress, in any case different in type) might be organised as a truly business meeting with discussion going right through the Thursday and Friday morning, opportunity being given for breaking down delegates into study groups, and the consensus of opinion expressed as a resolution for forwarding to the appropriate authority. There is no doubt that the hiatus between the two morning sessions makes discussion lose way, and the conference to fall between the two stools of a business meeting and a social occasion.

Sir Keith Joseph's Address

Thus the first morning session, with some good individual contributions, notably perhaps by MR. LING, was inevitably scrappy and it did not find its unifying point until the next day when SIR KEITH JOSEPH'S brilliantly delivered address and crisp contributions to the questions posed to a panel of experts did the trick, for in spite of his well-argued defence of the safety of the green belts, there were some whose feeling of alarm was not eased; while others could not accept Sir Keith's belief that existing planning legislation was sufficient to control even the Piccadilly redevelopment project. With something to get their teeth into, the session came to life. This process was aided by a consummate progress report by SIR THOMAS BENNETT, in which he analysed conference progress to date. Delivered with complete clarity and without a single note, this effort was received with tremendous applause. Again one wonders how long the Institute can continue to ignore the special qualities which Sir Thomas would bring to its leadership. Here, as well as in other directions, there is opportunity for fresh thinking.

The business session ended with a thoughtful and moving summing-up by MR. MAXWELL FRY (whom 'The Guardian' correctly described as one of the pioneers of modern architecture in Britain).

Manchester, like other conferences, owes much to the spade-work done by the MSA executive committee, not least to MR. R. M. MCNAUGHT, its chairman, and MR. ARTHUR GIBBON, its secretary. The warm-hearted, genial quality of hospitality shown by the hosts, the excellent arrangements made for the visitors' comfort and entertainment (by none more so than by MR. HARRY SEWARD) and the smooth organisation all round (in which the executive committee would be quick to acknowledge the experience of the imperturbable MR. HORACE WILLIAMS, the RIBA's chief clerk) have all contributed to the success of a conference which notably marks the beginning of MR. GORDON RICKETTS'S reign as Secretary.

'Rebuilding Our Cities'

Papers and Discussion at the British Architects' Conference

THE BRITISH ARCHITECTS' CONFERENCE of 1960 opened with an unofficial reception at the Art Gallery in Manchester on June 15, when delegates and their wives were received by the President, Mr. Basil Spence, Kt.-Designate, RA, and Mrs. Basil Spence, and by Professor R. A. Cordingley, President of the Manchester Society of Architects. The business session opened in the Free Trade Hall next morning, when the Conference was welcomed by the Lord Mayor of Manchester, Ald. Arthur Donovan, after which the architecture bronze medal of the Society was presented to Mr. L. C. Howitt, City Architect, for the design of the Blackley Crematorium and Cemetery. Mr. Spence then opened the conference with a short address, after which the three principal speakers, Mr. Hubert Bennett, Mr. L. Hugh Wilson and Mr. Arthur Ling, introduced briefly their papers which had previously been circulated and summaries of which now follow. Subsequently there was discussion.

Mr. C. D. Spragg and Mr. and Mrs. Harold Conolly (Chelmsford)

The Lord Mayor's Welcome

WELCOMING THE CONFERENCE on Thursday morning, June 16, the LORD MAYOR said that Manchester had ambitious plans for getting rid of its miles of mean, squalid and ugly streets. The city could not claim to have made great headway, but progress was being made. 'When I pass through those streets, I feel the presence of some deadening influence,' he continued. 'I am sure this influence must be re-echoed in the lives of the people whose unhappy lot it is to spend their time in such surroundings. On the other hand, I see a lot of architecture which has been practised freely over the year, embracing features of beauty and imagination. Then I feel a sense of buoyancy as if one's soul had been stirred and awakened.

'I am delighted,' the Lord Mayor continued, 'that the architecture medal for the best building in the area has gone to Mr. Howitt. We have ambitious plans in hand for rebuilding—for offices, schools, railway stations and much else. This will do much to change the face of Manchester.'

The Bronze Medal Award

MR. SPENCE then presented the bronze medal of the Manchester Society of Architects for the Blackley crematorium and cemetery to Mr. L. C. Howitt, city architect, a replica to the Lord Mayor (as representing the client) and a certificate to Mr. Seddon as representing the builders, Messrs. G. & J. Seddon. In responding, MR. HOWITT gave credit to the members of his staff who had been directly concerned with the design and supervision of the crematorium, to the client ('after all, they pay my salary') and to the builders, ending by saying: 'The one thing you can be sure of in a building like this is that there will be no complaints from the customers.'

President's Opening Address

A FORTHRIGHT ATTACK upon land speculators was made by MR. SPENCE in his address opening the conference. 'Our cities' he said, 'are the heart of our civilisation, our historic and architectural treasures bear witness to our ability to create towns and cities as beautiful and civilised as any in the world: Bath, Edinburgh, York, Chester, the Georgian Terraces, our finest parks and streets continue to draw tourists from all over the world. But the greater part of our towns and cities are grim deserts of bricks and mortar, great areas of dereliction and subtopian wastes of semi-detached houses and bungaloid growths left by the industrialists of the 19th and the spec. builders of the 20th centuries.

'Our precious land, so beautiful and so small, has become a casino for the speculators, who are now clamouring to build in the green belts that surround our cities —less, one suspects, because they really want to solve the housing problem, than because there is a fortune to be made if the Minister of Housing and Local Government can be persuaded (and I hope he never will be) to relax his defences. Like the profiteers who corner the bread supply in a besieged city, the speculators are cornering the limited supply of building land in town and country and holding the community up to ransom. The money that should be going into better architecture and higher standards is being taken by people who have contributed nothing to the building process. This has grown to the dimensions of a public scandal, and threatens to make good planning and city reconstruction prohibitively expensive. I sympathise with builders who find it increasingly difficult to build, but we must harness their skill and resources to the building of new towns and the renewal of old ones, and prevent the continued outward sprawl over the countryside.

'The problem of rebuilding our cities bristles with difficulties,' concluded the President. 'We need new powers and new sources of money. We need to raise our own standard of proficiency, and to apply some of our greatest talents to the task. But, if the nation decides that the job be done, I am sure that we in all the professions concerned can do it. But I must add, that if the opportunity is not taken now, it will not recur in our time.'

The three principal papers then followed and one summarised.

(continued on page 1191)

At the Garden Party: Mr. Clifford Culpin (left) with Mr. Alex Gordon (Cardiff)

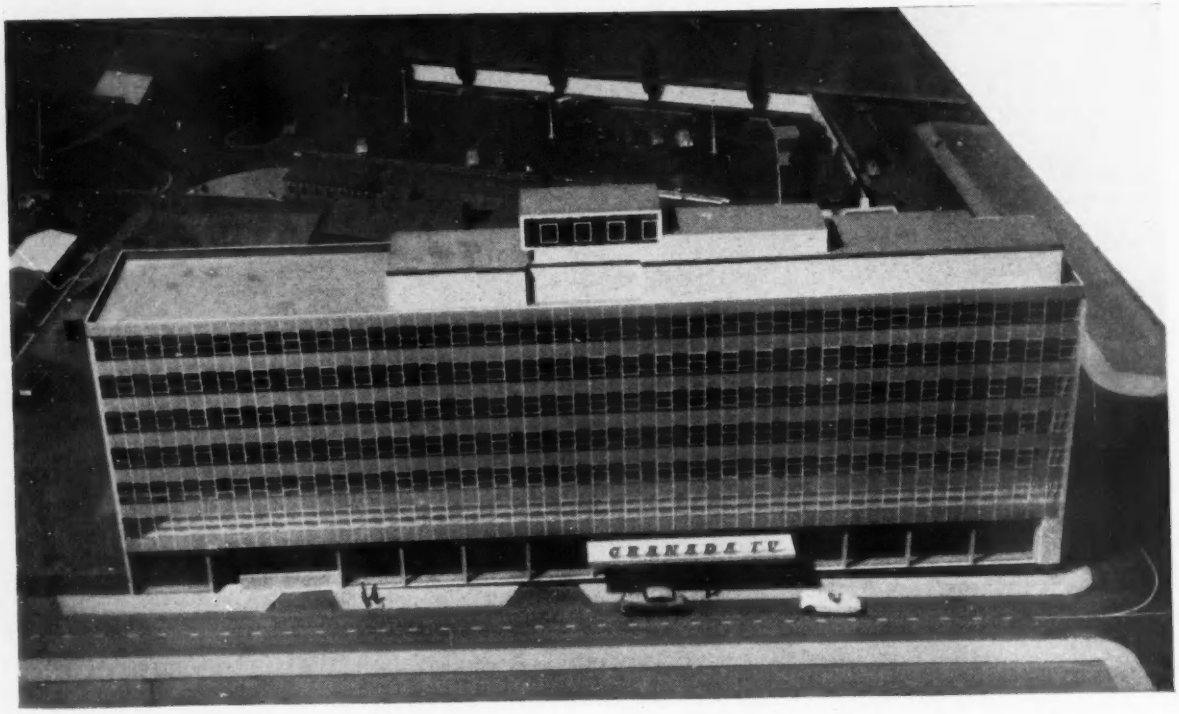
Mr. G. Kenyon (Newcastle upon Tyne) with (right) Mr. L. Monks (Manchester)

Mr. Norman Westwood (left) and Mr. David Benton (Registrar ARCUK)

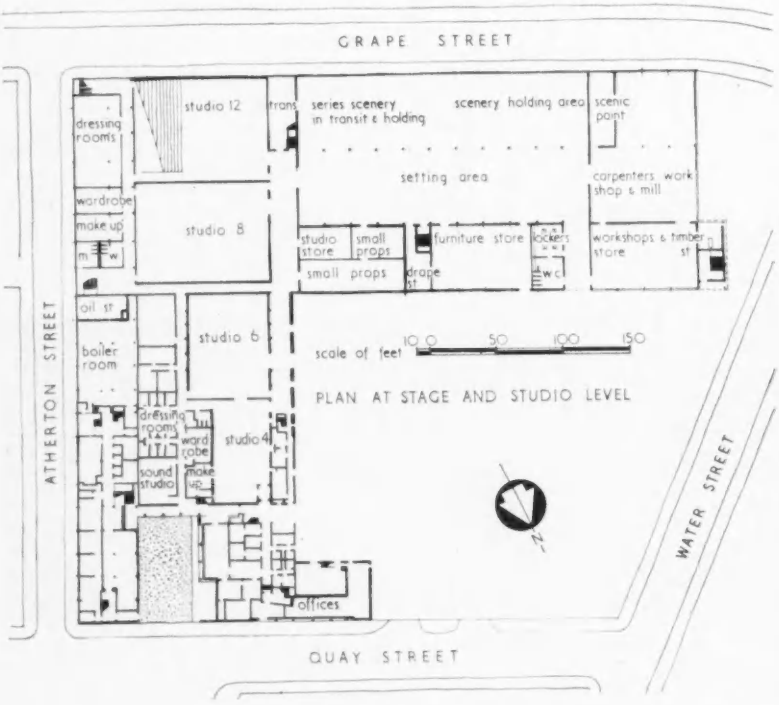
Granada Television Centre, Manchester

RALPH TUBBS, OBE, FRIBA, architect

B. D. ETCHELLS, ARICS, quantity surveyor, phases 1 to 4



Model of main frontage along Atherton Street

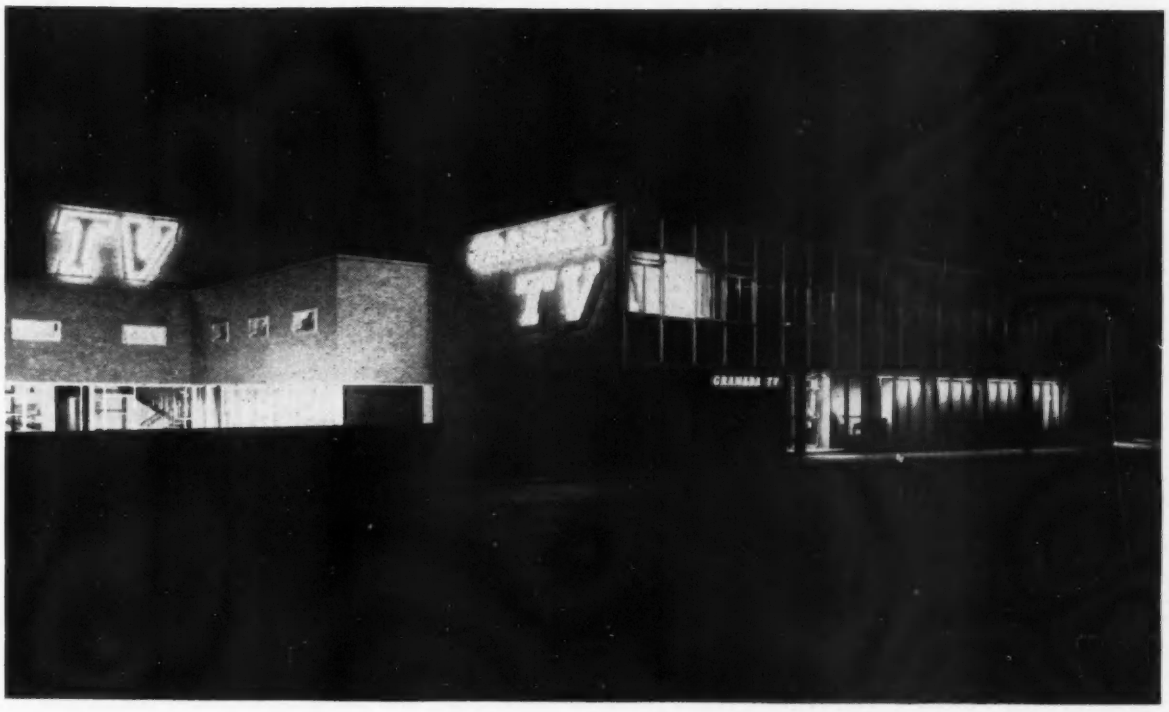


IT WAS REGARDED of utmost importance that the Television Centre should form an imaginatively conceived and integrated whole. The scheme has been divided into five stages, of which 1 to 3 are complete, stage 4 is nearing completion and work on stage 5 will start early this summer. Phase 1 consists of one small studio with ancillary rooms and small office block, for which the design was started in April, 1955, and on May 3, 1956, Granada TV Network went on the air. Phase 2 provided one large studio, completed in October, 1957. Phase 3 included the Dressing Room Block, serving existing and future studios, Technical Department, Video and Audio Tape Recording Rooms, and was opened in March, 1959. Phase 4 is a 10-storey Office Block, headquarters of Granada TV Network. Work started on the site in August, 1959, and the building will be completed in the coming autumn.

The office block will provide 100,000 sq. ft. of floor space and will rise 113 ft. from Atherton-street, forming part of the main elevation to the proposed ring road to be developed by the City Corporation. It is closely integrated with the existing studios and associated buildings, the Reception Hall forming

CYRIL SWEETT & PTRS., quantity surveyors, phase 5

J. GERRARD & SONS LTD., general contractors



Office frontage, Quay Street

Office wing and gatehouse, Quay Street

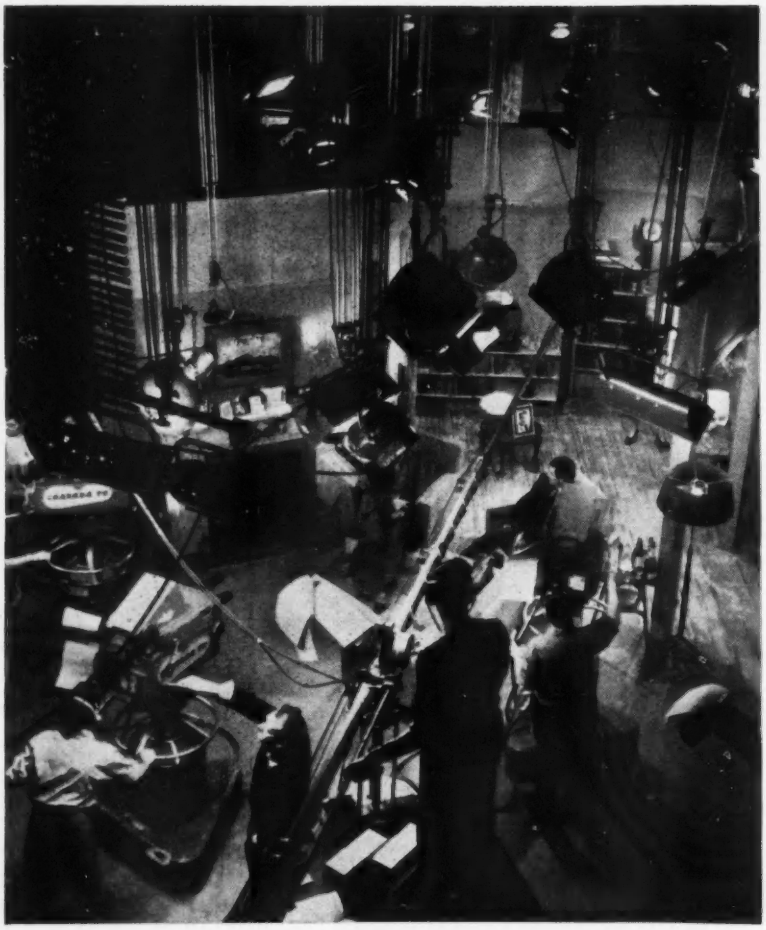
the main entrance to the entire television centre. Easy access is provided through the reception hall to the studios and the technical departments.

Adjacent to the reception hall is an exhibition space and film operations department. Above the ground floor will be seven floors of offices. On the top floor there will be a small amount of residential accommodation with a roof garden. The building is constructed of reinforced concrete with beamless floors, giving maximum flexibility of internal partitioning. All modern services will be provided, including artificial ventilation. There will be acoustic ceilings throughout. External cladding is a light aluminium curtain wall.

Phase 5 is the Scenery Construction Block and Studio Block. The scenery block will form a small modern factory with its own design and graphic studios, and technical maintenance of all television apparatus will also be carried out in this building. The studio block will contain two new studios, planned for colour television, with ancillary accommodation, i.e., dressing rooms, wardrobe, make-up, rehearsal rooms, etc. This stage will commence shortly.

Granada Television Centre

Above, the committee room, and viewing room. Below, a television studio, and the central control room



Sub-Contractors & Suppliers:

Reinforced concrete structure: Truscon Ltd.; *metal windows and roof lights:* John Thompson Beacon Windows Ltd.; *terrazzo staircases:* Art Pavements & Decorations Ltd.; *glass dome lights:* T. & W. Ide Ltd.; *plaster acoustic tile ceilings:* Petradene Ltd.; *suspended corridor ceiling:* Anderson Construction Ltd.; *bituminous felt roofing:* Permanite Ltd., D. Anderson & Son Ltd.; *linoleum and asphalt flooring:* Limmer & Trinidad Lake Asphalt Co. Ltd.; *venetian blinds to rooflights:* Danaura Ltd.; *heating and ventilation:* Young, Austen & Young Ltd.; Blackburn & Starling; *studio lighting grid:* Trafford Park Steel Ltd.; *railings:* Duxbury Hartley & Co. Ltd.; *steel escape staircases:* Haywards Ltd.; *sanitary fittings:* Pryke & Palmer Ltd.; *facing bricks:* Henry J. Greenham (1929) Ltd.; *ironmongery:* Laidlaw & Thomson Ltd.; *electrical (office block):* Troughton & Young Limited.

Housing Developments in Manchester

J. AUSTEN BENT, DIP.TP, ARIBA, AMTPI, director of housing
A. MACKENZIE, ARIBA, previous director of housing

THE CITY OF MANCHESTER is faced with an enormous slum clearance problem. It is accepted that 71,000 new houses are required, 60,000 of which are to replace houses unfit for human habitation.

There is a grave shortage of sites within the city boundaries and many of those sites are liable to very considerable subsidence from mining operations, and such liability obviously imposes certain restrictions upon the type of redevelopment which can take place.

The City Council has determined that within the city, redevelopment shall take place at a nett density of 90 habitable rooms per acre. Until recently this has been achieved by large-scale use of four-storey maisonettes and an urban type of narrow fronted house erected in terraces and planned around a communal open space at the rear (photo 1: the chestnut fencing is temporary until the grass is established). The Corporation has, however, now given approval to developments incorporating multi-storey flats, the latest scheme which is now awaiting approval, providing for flats up to 16 storeys in height. Photos 2 and 3 are of models illustrating the types of developments proposed.

Current multi-storey schemes also include blocks of nine storey flats for single and aged persons (Photo 9). This category of tenant has previously been accommodated in bungalows (Photos 4 and 5) or blocks of three-storey single persons flats (Photo 6).

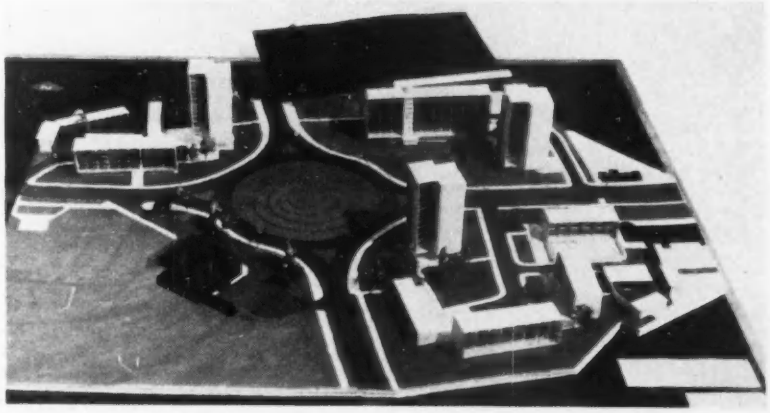
So far as overspill is concerned, Manchester has developed schemes in Lancashire, Cheshire and Derbyshire, and further large schemes are under negotiation. The majority of houses in overspill areas are owned and managed by Manchester Corporation, a small number have been provided by neighbouring local authorities and two schemes under the Town Development Act, 1952, are under negotiation.

The overspill developments vary considerably in size from about 90 to 4,000 dwellings. They are normally planned as extensions to existing towns or villages as at Langley, Middleton, Lancs., or Partington, Cheshire. The

(1) Narrow frontage housing, St. George's redevelopment. Direct Works, Housing Department

(2) St. George's, stage 2

Holyhedge development (3)



(4)

(5)

Top and right, front and rear elevations of aged persons dwellings, Didsbury. General contractors, E. V. Hughes & Ptrs. Below, three-storey flats, Knutsford overspill development, for single and aged persons. General contractors, Five Oaks Estates Ltd.

typical overspill layout plan provides a mixed scheme of houses, three-storey flats and four-storey maisonettes with a nett density of between 50 and 60 rooms to the acre.

The majority of the dwellings in these areas are two-storey houses as it is considered that tenants going out of Manchester into semi-rural areas will require gardens (photos 7 and 8). A small number of aged persons bungalows and single persons flats are also included.

Some of the latest overspill schemes will also include a number of multi-storey tower blocks,

(6)

(7)

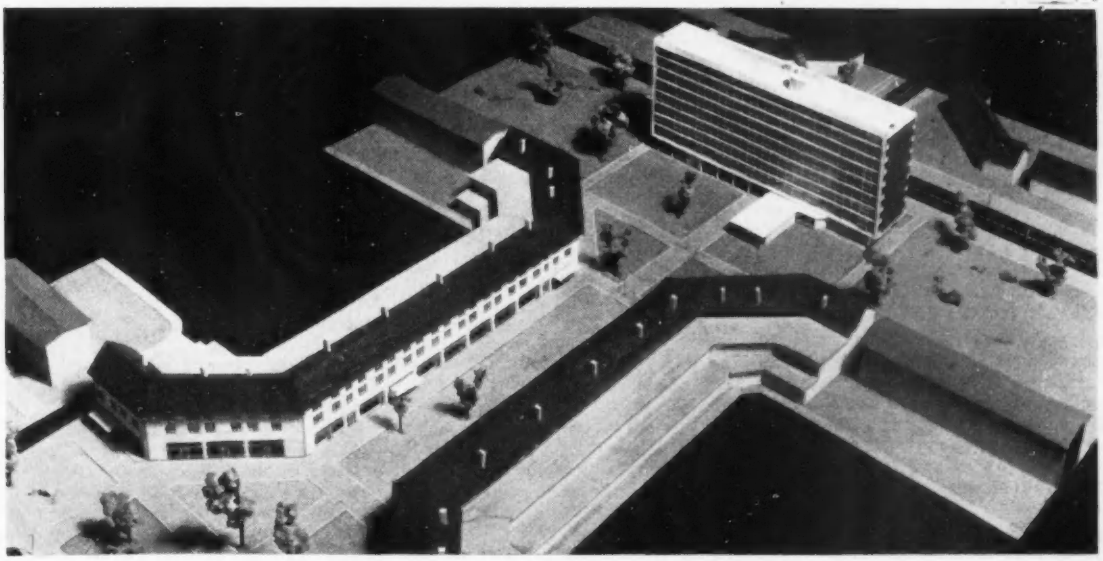
Housing Developments in Manchester

normally sited on sloping ground. Garages are provided normally in the form of batteries of lock-ups in the later schemes in the proportion of one to two dwellings.

(8)

Top, terrace termination with cottage flat unit, Cheadle overspill. Right, four-bedroom termination to three-bedroom houses, Cheadle overspill. General contractor, T. Castello Ltd. Below, nine-storey flat project for single and aged persons, Wythenshawe

(9)



Letters to the Editor

Cost of Building Charts; Urban Renewal; Growth of Main Contracting in Scotland

Cost of Building Charts

SIR,—In the notes accompanying Mr. Venning's Cost of Building Charts published in your issue of May 27, it is stated that 'It would seem that the recent wage increase will not be absorbed by the industry and the cost will be passed on in the form of higher building costs.' It would be interesting to learn how Mr. Venning arrives at this conclusion.

Between the beginning of 1959 and the end of March, 1960, there was an increase of 1d. an hour in basic building wages, an increase of 9d. a week in the cost of holiday stamps, and an increase of about 1 per cent in the overall cost of materials. Yet over this period the *official* index of building costs published by the Ministry of Works remained steady at 13 per cent above the average of 1954. Each of these increases, it seems, was absorbed, possibly by increased output-per-man, aided by more mechanisation and greater efficiency. There is no reason, therefore, to expect that the recent wage increases will be passed on in full, as Mr. Venning implies.

It is noted that Mr. Venning's line of building costs is based 'on actual tenders for the normal run of building contracts.' At first sight, this approach sounds commendably realistic; but it has serious limitations. For example, opportunities of comparing the cost of one building with that of another are extremely rare, however similar the two may appear to be. Exactly similar buildings are seldom erected, except perhaps as part of the same contract let, at the same time, for erection on the same site. There is no way of ensuring that the specifications of the particular house, factory or power station are 'typical,' or that changes in their cost will be 'typical.'

Again, while it is possible that Mr. Venning has access to a wide range of tender prices it is also possible that his researches are confined to a small sample, not truly representative of the position throughout the country, as is the official index published by the Ministry. In the absence of more precise information regarding the basis upon which his calculations are made the validity of Mr. Venning's charts and conclusions must remain in doubt.

P. J. FLITTON,
Economist, NFBTE,
82 New Cavendish-street, W1.

Urban Renewal: Procedure and Finance

SIR,—The loss in time, effort and money involved in disputes and inquiries about proposed schemes of redevelopment such as that for the Monico site (to some of the morals of which you referred in your leading article last week), must add up to a fantastic figure. In view of the immense amount of urban renewal to be undertaken, however, the cost and trouble of these inquiries will have been justified if they result in a revision of official procedure that will help to resolve or simplify the problems of developers and planning authorities.

The shortage of skilled planners adds point to the need to tackle promptly and vigorously the chief obstacles to large-scale redevelopment—land ownership and finance. Until these basic difficulties are ameliorated, redevelopment is bound to be a nerve-wracking, disappointing and wasteful business for all concerned. The requirements are concisely set forth in a recent memorandum on 'Central Area Development' submitted by the Town Planning Institute to the Minister of Housing and Local Government, and referred to in a recent issue of 'The Builder.' I will not take up your space by recapitulating them here, but I would urge all who are interested in the problems of urban renewal to study this excellent memorandum, which is available in pamphlet form (price 6d. post free) on application to the Secretary of the TPI, 18 Ashley-place, London, SW1.

As you point out in your leading article, the cost of acquiring land in central areas for comprehensive redevelopment is formidable, but it is not so alarming as it seems if account is taken of the possibilities of recoupment from the enhanced values created. In any case, cost will have to be faced. We acquiesce, though perhaps none too cheerfully, in the pouring out, often wastefully, of fantastic sums on armaments; we shall have to get accustomed to the idea of lavish expenditure on works of public benefit. In the meantime pressure should be brought to bear on the Government to simplify and clarify planning procedure and to make grants adequate to the needs of comprehensive redevelopment.

JUNIUS,
Wimbledon, SW.

Growth of Main Contracting in Scotland

SIR,—On April 29 you published an article by a special correspondent on 'The Growth of Main Contracting in Scotland'; and, in your editorial comment in the same issue, you commended his plea for a reappraisal of a system which is not traditional to that country.

I am confident that the Scottish Board of this Federation would heartily support your correspondent's reasoned preference for the traditional 'separate trades' system. Indeed it has urged our Council on several occasions in the past ten years to express to Ministries, etc., similar views on its behalf.

If, however, contrary views prevail, then the course which you have suggested to the Royal Incorporation of Architects in Scotland is a most proper one and I hope that your words will be heeded.

I think also, that it should be realised that the Report on Tendering Procedure prepared by the Howard Robertson Committee does not extend to sub-contracting and, consequently, does not touch on the difficulties of or, as you term it, the injustice being done to specialist sub-contractors. The issue is, therefore, open in England as well as in Scotland.

In England, too, as your correspondent suggests, the immediate remedy might be that 'subject to the right of the main contractor to carry out any particular trade himself, sub-contractors should tender direct to the architect and nomination of those trades should be practised to a far greater extent than now.' It has been the fashion recently to deprecate the nomination of sub-contractors; I would suggest that, as your special correspondent's article shows, there are dangers against which nomination was devised as, and remains, a safeguard.

C. E. ROGERS,
President,
Federation of Associations of Specialists and Sub-contractors,
14 Bryanston-street, W1.

Competition News

New Library Building at Trinity College, Dublin

THE BOARD of Trinity College, Dublin, invites architects who are authorised to practise in their own country, and who are members of a recognised institute or society, to submit designs in international competition for a new library building at Trinity College in the University of Dublin.

Competitors will be required to submit a full set of drawings together with sketch perspectives of interior and exterior views of the building; a report on the design explaning the construction, services and materials; information on finishes; and an analysis of the building content. The author of the design placed first will be given the commission to design and carry out the work, and will be paid a premium of £1,500 as the first instalment of his fees. Competitors placed second and third will receive premiums of £1,000 and £750.

The jury of award appointed by the promoters will consist of the Rt. Hon. the Earl of Rosse, vice-chancellor of the university, Sr. Franco Albini, of Italy, Sir Hugh Casson, MA, FRIBA, Mr. Raymond McGrath, FRIBA, of Dublin, and Mr. K. DeWitt Metcalf of Harvard University. The promoters have also appointed Mr. J. Gordon Aston, FRICS, as consultant surveyor, and Mr. Ian Roberts, MA, BA(Arch), FRICS, as technical advisor to the competition registrar.

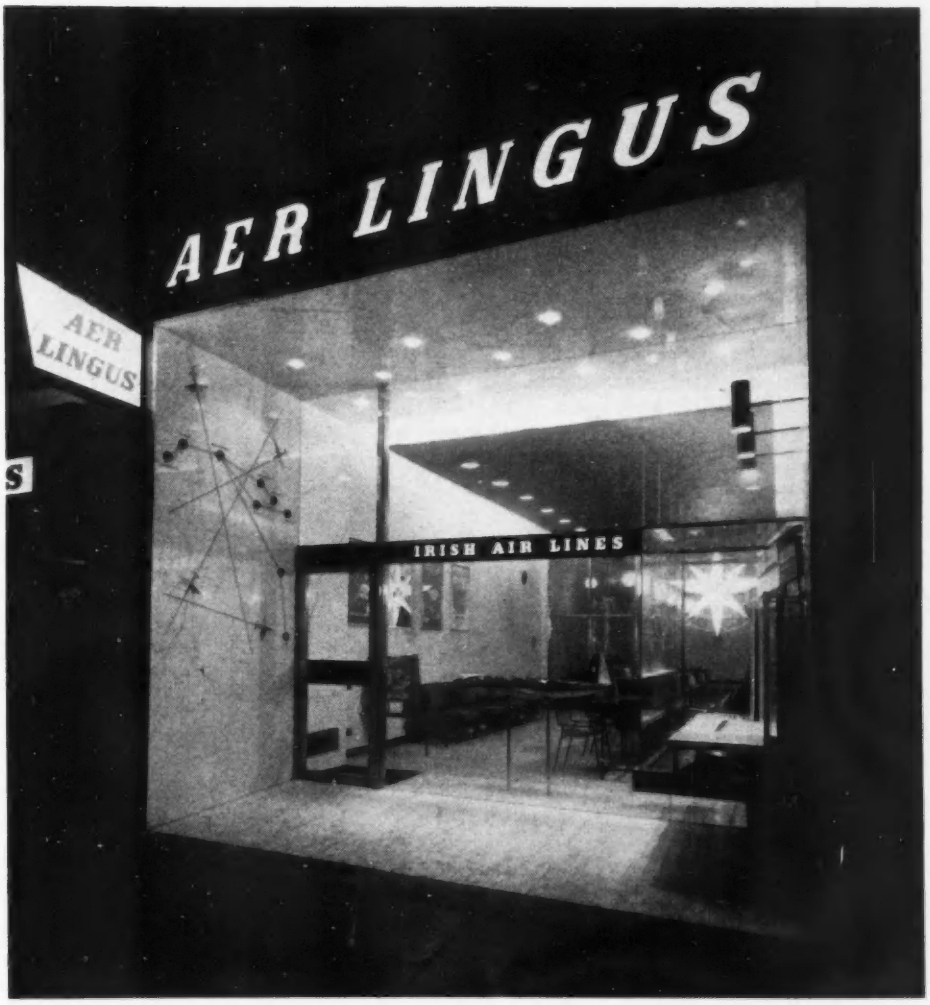
The estimated cost of the building, excluding professional fees, movable furnishings and library equipment should not exceed £390,000.

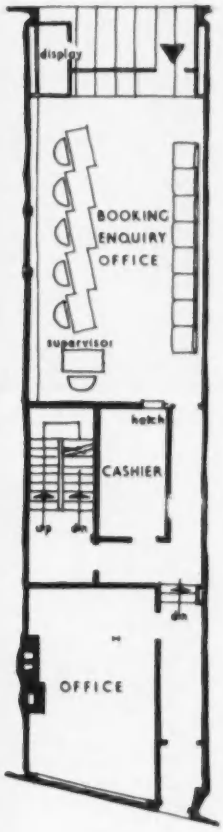
Competition conditions are available from the Competition Registrar, Trinity College, Dublin. Registration closes on August 31 and the last date for the receipt of questions is September 30. Entries must be received by 5 p.m. on March 21, 1961.

Aer Lingus Booking Office, Manchester

CRUICKSHANK & SEWARD, architects

THOMAS SCOTT & CO. (MANCHESTER) LTD., general contractors





Booking office interior and fully glazed shopfront. Ground floor plan, scale: 1 in. = 16 ft.

THE AER LINGUS SCHEME for 67 Deansgate, Manchester, provides a public booking office together with administrative and clerical offices for the company's North of England staff. An old, five-storey building in the centre of the city was taken over and the interior entirely reconstructed. The property was in a generally neglected condition, so that it was necessary to carry out a considerable amount of structural work as well as the anticipated rewiring, installation of central heating, partitioning, etc. By careful pre-planning and a notable effort by all parties involved the contract was completed in twelve weeks, and the premises were opened to the public on St. Patrick's Day, 1958.

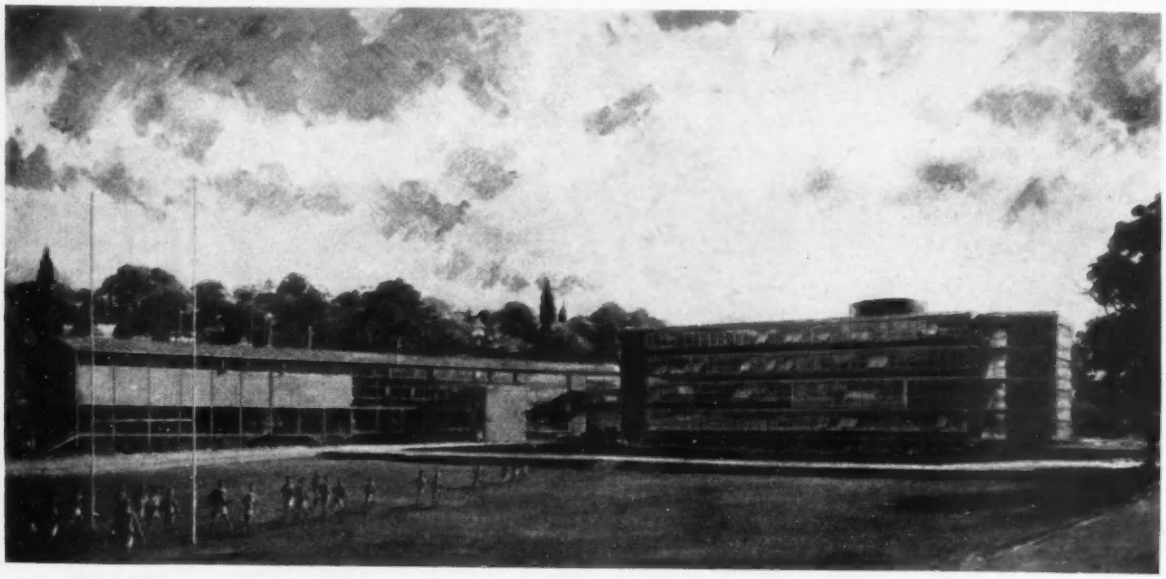
The public booking office is fully visible from the street through full-height windows and is designed to attract attention both during the day and also at night when it is illuminated.

The armour plate glazing is set back some 6 ft. from the frontage, allowing a generous forecourt which is paved in Travertine marble slabs. Lighting is by tungsten decorative fittings, inset ceiling lights, and indirect lighting above a suspended ceiling.

The value of the contract including the booking office furnishings was approximately £25,000.

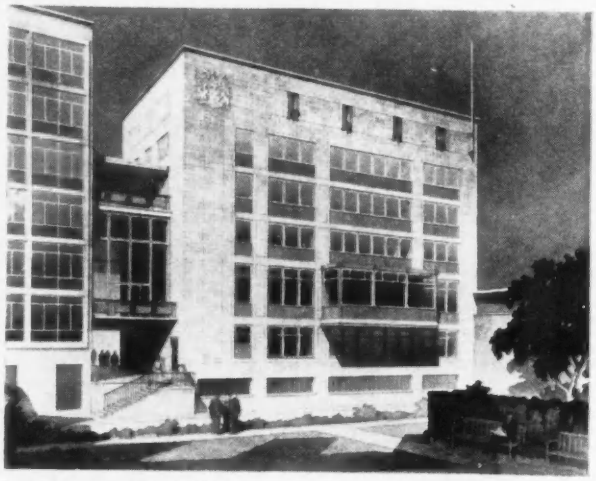
Sub-contractors & Suppliers:

Shopfitting: Harris & Sheldon Ltd.; *heating and ventilating:* Young, Austen & Young Ltd.; *electrical installation:* Deakins (Electricians) Ltd.; *structural steelwork:* Sherratt & Smith Ltd.; *floor finishes:* Limmer & Trinidad Lake Asphalt Co. Ltd.; *plumbing:* A. Longworth & Sons Ltd.; *neon signs:* The General Neon Lights Ltd. (Claudegen); *message carriers:* Lamson Engineering Co. Ltd.



Drawn by John Lansdell.

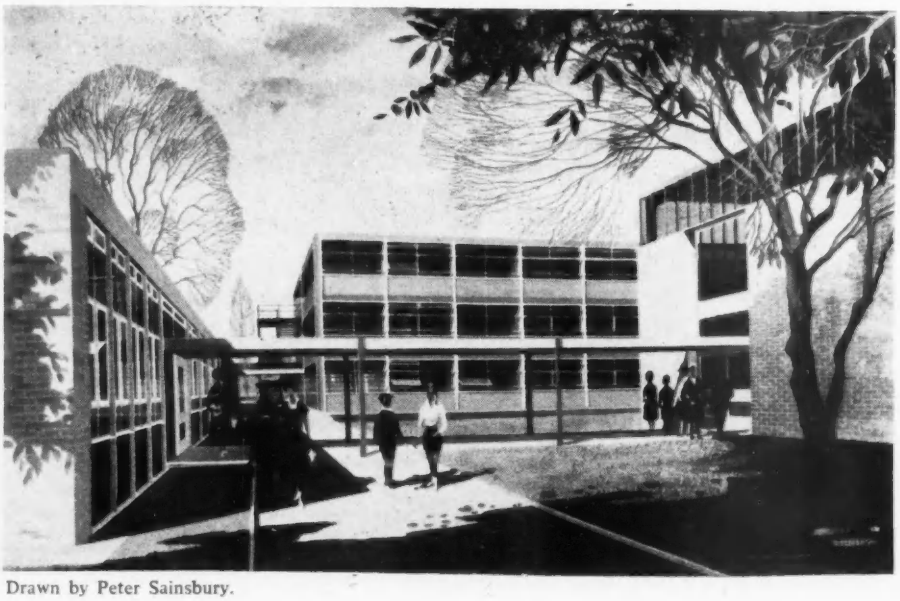
BISHOPSWOOD
SECONDARY SCHOOL,
CROUCH END,
MIDDLESEX
EDWARD D. MILLS, CBE,
ARCHITECT



Drawn by Lawrence Wright.

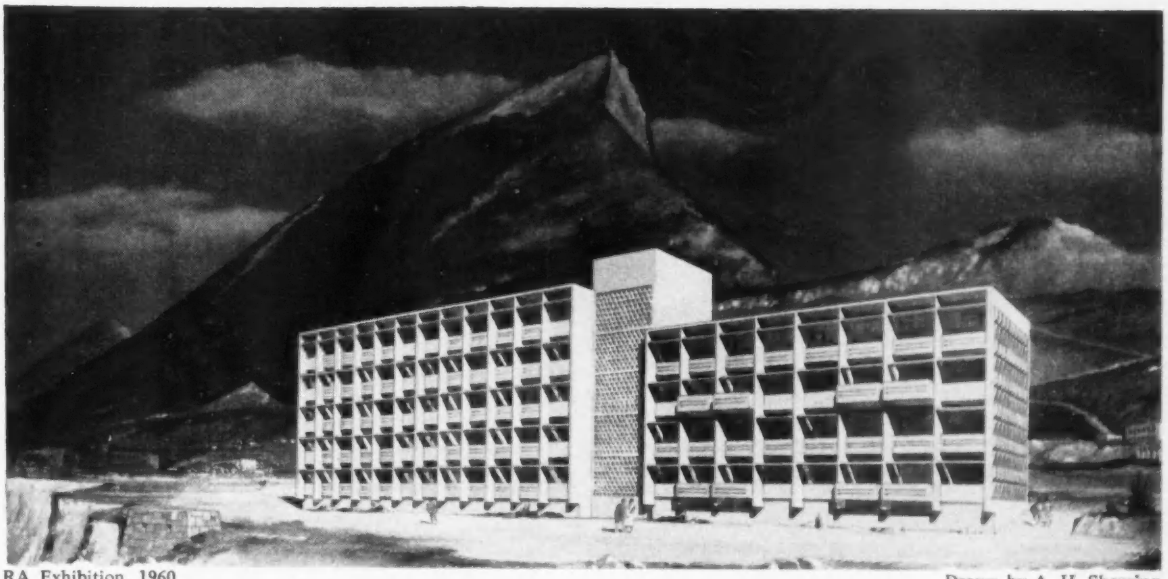
Royal Academy Exhibition 1960

NEW PREMISES
FOR THE
WORSHIPFUL
COMPANY
OF SALTERS,
FORE STREET, EC
SIR HOWARD
ROBERTSON, RA,
ARCHITECT



Drawn by Peter Sainsbury.

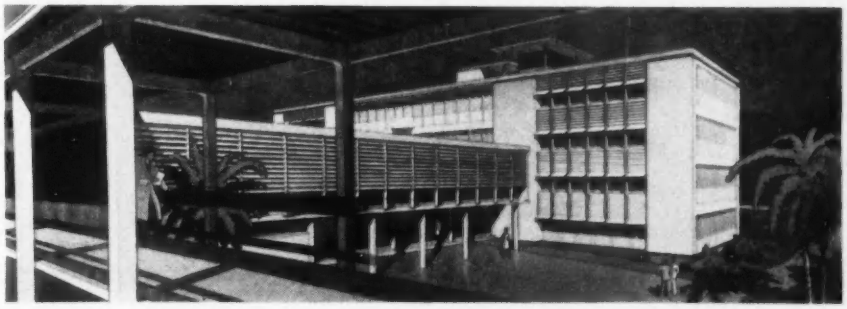
WHITEFRIARS
SECONDARY SCHOOL,
HARROW, MIDDX.
ELIE MAYORCAS,
ARCHITECT



RA Exhibition, 1960 Drawn by A. H. Shearing.

MARRIED SOLDIERS' QUARTERS, GIBRALTAR. COVELL & MATTHEWS, ARCHITECTS

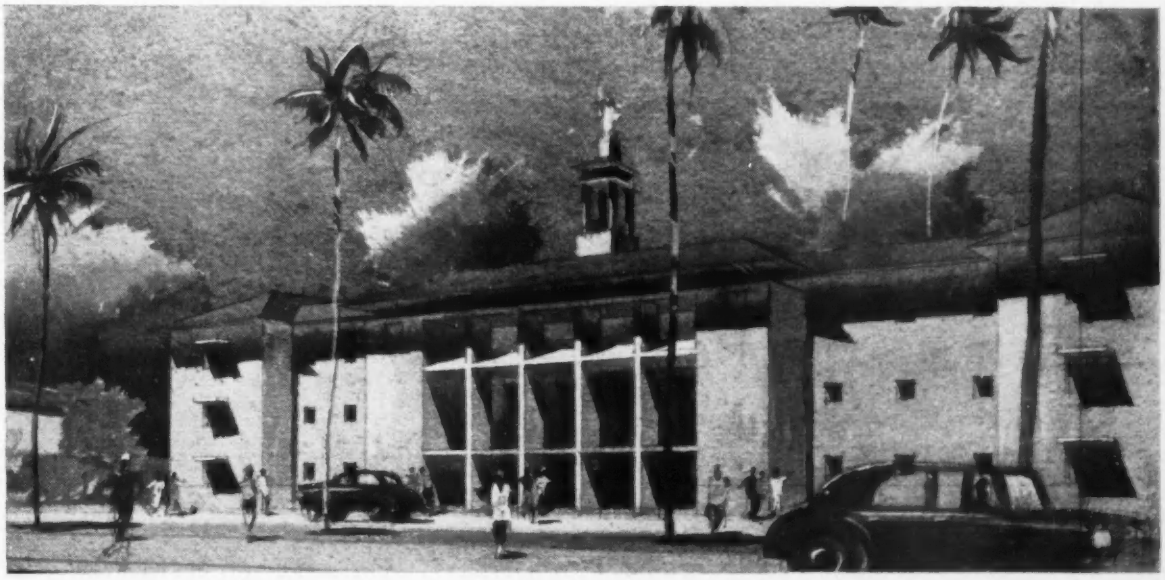
UNIVERSITY COLLEGE HOSPITAL, JAMAICA SPECIALIST WARD BLOCK NORMAN & DAWBARN, ARCHITECTS



RA Exhibition, 1960 Drawn by Lawrence Wright.

SKETCH FOR A GOVERNMENT BUILDING, DAR-ES-SALAAM. ROBERT ATKINSON & PTNRS., ARCHITECTS

RA Exhibition, 1960 Drawn by D. H. Beaty Pownall.



Poultry Processing Factory, Aldershot, Hants

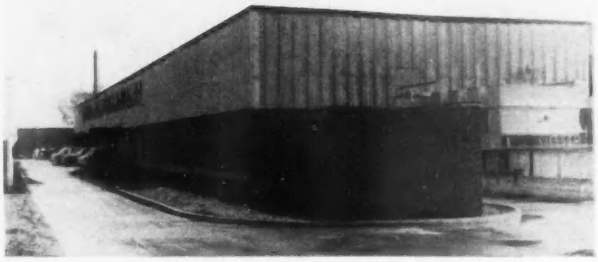
M. R. FERGUSON, ARIBA, architect

LANCHESTER & LODGE, consultants

PYNFORDS LTD., foundation consultants

WAKEMAN, TROWER & PARTNERS, quantity surveyors

HIGGS & HILL LTD., contractors



THE BUXTED CHICKEN COMPANY LIMITED required a factory capable of processing initially 70,000 chickens a week, but flexible enough with additional equipment to increase output to 200,000 without further building. Two months were allowed for detailed planning and six months for construction.

The Site: Well situated for main services but with indifferent load bearing properties and a very high water table with the likelihood of running sand.

Planning: The plucking, eviscerating, chilling, packing, freezing and storing of the finished product are planned under one roof in a floor area of 19,000 sq. ft. Canteen, offices, engine room, boiler room and offal disposal room run the length of the production area on one side, the other side of the production area being left free for future expansion. The other buildings on the site are the water and sewage pumping stations and a 140,000-gallon water tank. The building was sited to keep the service road and unloading yard as far as possible from the neighbouring flats.

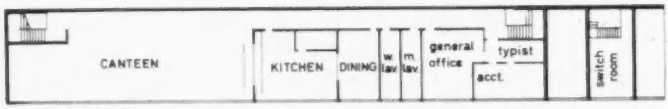
Construction: Owing to the high water table and to ensure that excavation for the foundations should not be hindered by bad weather the three rows of stanchions were carried on three ground beams shaped like inverted T's, the bottoms of which are 9 in. to a foot below natural ground level. The superstructure framing is of steel with four-foot-deep lattice beams over the production area and one-foot beams over the office block. The first floor of the office block is of precast concrete slabs carried on lattice beams through which run the services. The roof is aluminium decking with felt surfacing and was completed before the floor slab in the production area was cast. The floor slab in the production area is surfaced with granolithic, laid while the slab was still green. The whole of the plucking and eviscerating areas have a false ceiling of asbestos board sprayed with a plastic vapour seal to protect the steelwork from condensation and to give a hygienic finish compatible with the glass wall tiling.

Heating: Consists of low pressure hot water serving radiators in the office block and 'Raystrip' overhead heaters and Unit heaters in the production areas. The same boiler provides the steam for the scald tank and for cleaning down.

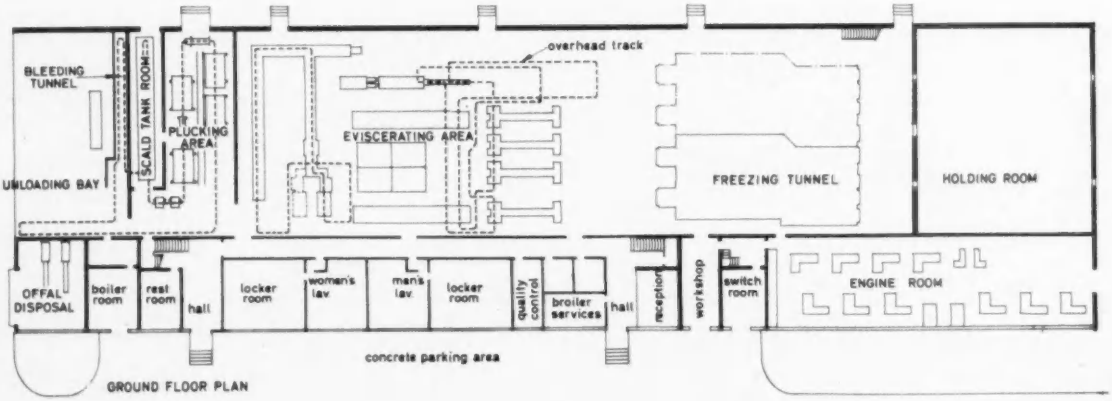
Subcontractors:

Insulation consultants and contractors: J. T. Herbert Ltd.; *refrigeration equipment:* York, Shipley, Ltd.; *structural steel:* Sommerfelds Ltd.; *roofing:* F. McNeill and Co., Ltd.; *false ceilings:* Sundeala Board Co., Ltd.; *floors:* E. J. Elgood Ltd.; *electrical contractors:* Buch & Vertue; and *heating contractors:* G. N. Haden and Sons, Ltd.

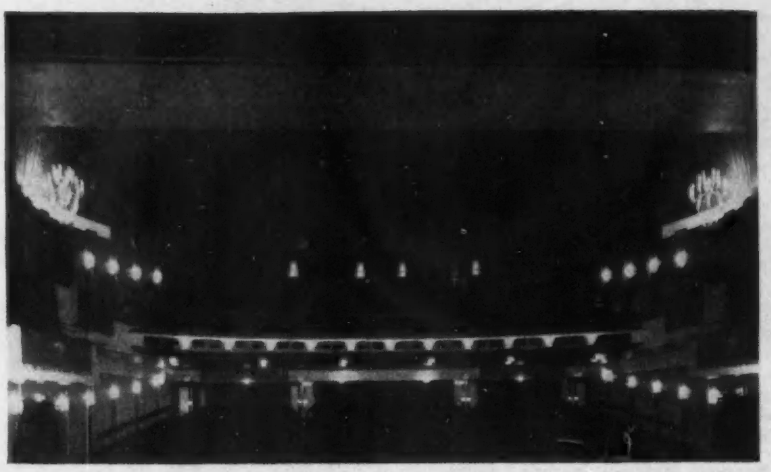
SCALE: 1 in. = 48 ft.



FIRST FLOOR PLAN



GROUND FLOOR PLAN



The new Royalty Theatre, Kingsway, London, which was opened last week by Dame Edith Evans. The architects are Lewis Solomon, Kaye & Partners and the builders the Token Construction Co. Ltd. The theatre forms an integral part of a new office building, on the site of the old Stoll Theatre

House-Builders' Registration

Council's Annual Luncheon

DR. J. GREENWOOD WILSON, MD, FRCP, DPH, Medical Officer of Health for the Port and City of London was elected chairman of the National House-Builders Registration Council at the Council's annual general meeting on June 21. Mr. Alexander Meikle, general manager of the Woolwich Equitable Building Society, was elected a vice-chairman.

SIR HAROLD BELLMAN, chairman of the Abbey National Building Society, congratulated the outgoing chairman of the Council, Mr. C. Douglas Calverley, FIOB, on the progress made by the National House-Builders Registration Council during his term of office. According to an official of the Council, the present progress, if maintained, should result in the purchaser of every house built by private enterprise after 1963 (except those for which an architect is individually responsible to the purchaser) being given tangible evidence of sound construction, in the form of the Registration Council's Certificate and a substantial guarantee in regard to structural defects.

Improvements in Design

Proposing the toast of the retiring chairman at the Council's annual luncheon held at the Dorchester Hotel, W1, the same day, SIR HAROLD BELLMAN said he would like to give them his impressions after 40 years' association with house building. These were threefold: (a) A marked extension of large scale estate development; (b) a notable improvement in the efficiency and economy of operations; and (c) a marked diminution in inferior construction. Very remarkable strides have been made in the quality of design and in the grouping of private housing schemes, he declared.

Continuing, Sir Harold Bellman said that the house building industry was approaching a crisis owing to the scarcity of building sites and the fantastic cost of land. A distressing consequence of the land famine and its attendant high prices was a reduction in the size of the modern house as builders endeavoured to keep down prices. 'Modern room sizes,' said Sir Harold, 'threaten to make broiler houses of our dwellings!' There was no doubt that as a result of the tendency to reduce the size of the house as the cost of the plot rose the purchaser was likely to get less for his money.

In regard to the improved standards of construction that he had noted, Sir Harold Bellman said that it was unfortunate that a similar enlightenment had not yet come to the supply side of the building industry. Builders were surely entitled, he said, 15 years after the war, to be able to rely upon the regular supply and delivery of the materials that they ordered. He hoped that the suppliers and distributors of building materials would put their house in order and take the necessary steps to equate supply and demand.

It was satisfactory, Sir Harold continued, that jerry building was now reduced to quite neglible proportions, but he appealed to those still outside the Council to come in and happily combine their own personal interests with those of their customers.

Referring to the scarcity and high cost of land MR. C. DOUGLAS CALVERLEY, the retiring chairman, said that the only way he could differ with Sir Harold in this respect was to declare that the crisis was already upon the house building industry. No less than 60 per cent of builders who were members of the Council had said that they would be without land to build upon by 1962.

Finally, Mr. Calverley gave it as his opinion that jerry building was still with us, despite Sir Harold Bellman's optimistic views. As evidence of this, said Mr. Calverley, 115 names had—for a variety of reasons—been removed from the Council's register in the past year.

News of the Week

New Honour for Mr. Spence

THE COUNCIL of the Royal Society of Arts has appointed Mr. Basil Spence, OBE, RA, ARSA, PRIBA, to the distinction of Royal Designer for Industry. Mr. Spence is to be invested with the knighthood conferred upon him in the Queen's Birthday Honours on July 5.

Work for Private Architects

ACCORDING to the latest RIBA survey, the value of new work commissioned of private architects in the first quarter of 1960, at £361m., reached a new high level, being one-third greater than in both the previous quarter and the corresponding quarter of 1959. This seems to confirm, says the RIBA, the earlier indication of a seasonal influence in the flow of new work with a peak coming in the first quarter of the year. To what extent there will be a fall in new commissions in the second quarter—or a cancellation or postponement of work also in the pipeline—as a result of the Government measures in April to tighten the credit squeeze, remains to be seen.

Full details of the latest survey will be given in an early issue of 'The Builder.'

ARCUK Annual Report

THE ANNUAL REPORT for 1959-60 now published by the Architects Registration Council of the United Kingdom states that on December 31, 1959, there were 19,183 names on the Register, 196 more than on the same date in the previous year. During 1959 some 845 persons who qualified by examination were admitted and the names of a further 119 who had previously resigned, or who had been removed for failing to pay retention fees, were restored. Two architects were removed from the register under section 7 of the Principal Act, 190 died, 393 resigned and a further 185 were removed for failure to pay retention fees.

Matters discussed by the Professional Purposes Committee included the question of fees for negotiating the sale of land or buildings; exhibitions of selected architectural work; architects' advertise-

'I was a principal in a big architectural firm until I heard what junior assistants were getting!'

Poultry Processing Factory, Aldershot, Hants

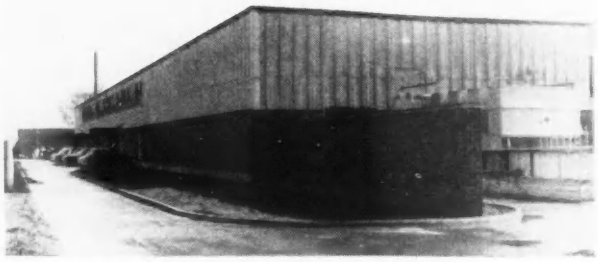
M. R. FERGUSON, ARIBA, architect

LANCHESTER & LODGE, consultants

PYNFORDS LTD., foundation consultants

WAKEMAN, TROWER & PARTNERS, quantity surveyors

HIGGS & HILL LTD., contractors



THE BUXTED CHICKEN COMPANY LIMITED required a factory capable of processing initially 70,000 chickens a week, but flexible enough with additional equipment to increase output to 200,000 without further building. Two months were allowed for detailed planning and six months for construction.

The Site: Well situated for main services but with indifferent load bearing properties and a very high water table with the likelihood of running sand.

Planning: The plucking, eviscerating, chilling, packing, freezing and storing of the finished product are planned under one roof in a floor area of 19,000 sq. ft. Canteen, offices, engine room, boiler room and offal disposal room run the length of the production area on one side, the other side of the production area being left free for future expansion. The other buildings on the site are the water and sewage pumping stations and a 140,000-gallon water tank. The building was sited to keep the service road and unloading yard as far as possible from the neighbouring flats.

Construction: Owing to the high water table and to ensure that excavation for the foundations should not be hindered by bad weather the three rows of stanchions were carried on three ground beams shaped like inverted T's, the bottoms of which are 9 in. to a foot below natural ground level. The superstructure framing is of steel with four-foot-deep lattice beams over the production area and one-foot beams over the office block. The first floor of the office block is of precast concrete slabs carried on lattice beams through which run the services. The roof is aluminium decking with felt surfacing and was completed before the floor slab in the production area was cast. The floor slab in the production area is surfaced with granolithic, laid while the slab was still green. The whole of the plucking and eviscerating areas have a false ceiling of asbestos board sprayed with a plastic vapour seal to protect the steelwork from condensation and to give a hygienic finish compatible with the glass wall tiling.

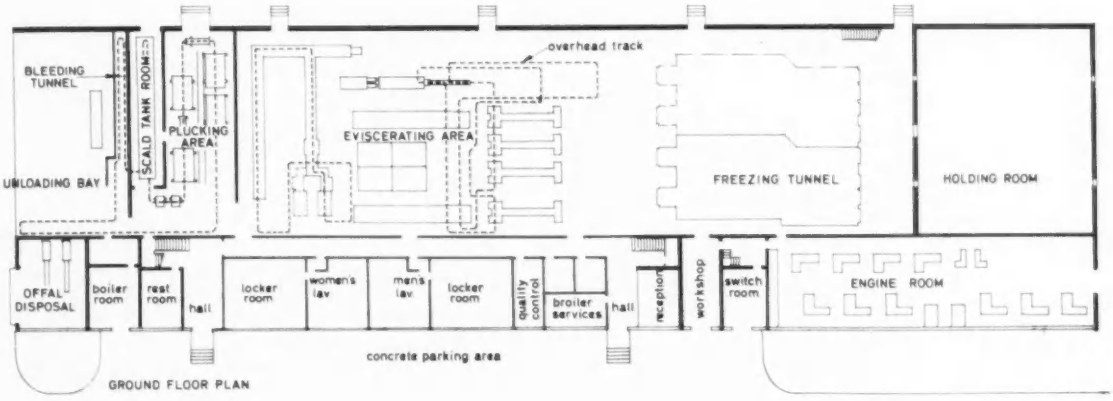
Heating: Consists of low pressure hot water serving radiators in the office block and 'Raystrip' overhead heaters and Unit heaters in the production areas. The same boiler provides the steam for the scald tank and for cleaning down.

Subcontractors:

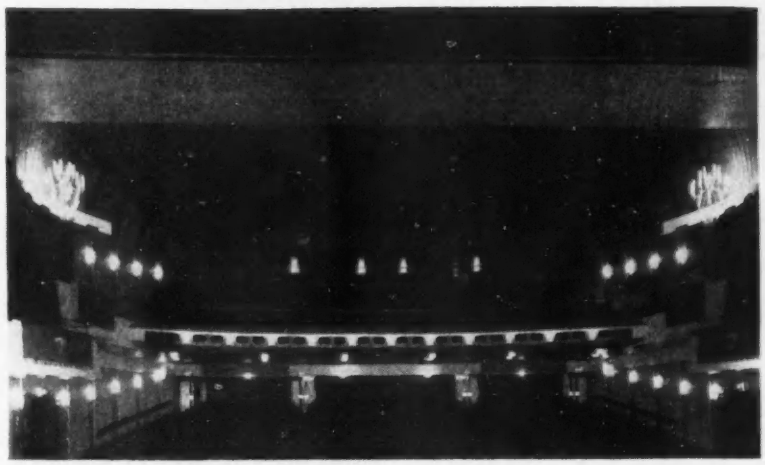
Insulation consultants and contractors: J. T. Herbert Ltd.; *refrigeration equipment:* York, Shipley, Ltd.; *structural steel:* Sommerfelds Ltd.; *roofing:* F. McNeill and Co., Ltd.; *false ceilings:* Sundeala Board Co., Ltd.; *floors:* E. J. Elgood Ltd.; *electrical contractors:* Buch & Vertue; and *heating contractors:* G. N. Haden and Sons, Ltd.

SCALE: 1 in. = 48 ft.

FIRST FLOOR PLAN



GROUND FLOOR PLAN



The new Royalty Theatre, Kingsway, London, which was opened last week by Dame Edith Evans. The architects are Lewis Solomon, Kaye & Partners and the builders the Token Construction Co. Ltd. The theatre forms an integral part of a new office building, on the site of the old Stoll Theatre

House-Builders' Registration

Council's Annual Luncheon

DR. J. GREENWOOD WILSON, MD, FRCP, DPH, Medical Officer of Health for the Port and City of London was elected chairman of the National House-Builders Registration Council at the Council's annual general meeting on June 21. Mr. Alexander Meikle, general manager of the Woolwich Equitable Building Society, was elected a vice-chairman.

SIR HAROLD BELLMAN, chairman of the Abbey National Building Society, congratulated the outgoing chairman of the Council, Mr. C. Douglas Calverley, FIOB, on the progress made by the National House-Builders Registration Council during his term of office. According to an official of the Council, the present progress, if maintained, should result in the purchaser of every house built by private enterprise after 1963 (except those for which an architect is individually responsible to the purchaser) being given tangible evidence of sound construction, in the form of the Registration Council's Certificate and a substantial guarantee in regard to structural defects.

Improvements in Design

Proposing the toast of the retiring chairman at the Council's annual luncheon held at the Dorchester Hotel, W1, the same day, SIR HAROLD BELLMAN said he would like to give them his impressions after 40 years' association with house building. These were threefold: (a) A marked extension of large scale estate development; (b) a notable improvement in the efficiency and economy of operations; and (c) a marked diminution in inferior construction. Very remarkable strides have been made in the quality of design and in the grouping of private housing schemes, he declared.

Continuing, Sir Harold Bellman said that the house building industry was approaching a crisis owing to the scarcity of building sites and the fantastic cost of land. A distressing consequence of the land famine and its attendant high prices was a reduction in the size of the modern house as builders endeavoured to keep down prices. 'Modern room sizes,' said Sir Harold, 'threaten to make broiler houses of our dwellings!' There was no doubt that as a result of the tendency to reduce the size of the house as the cost of the plot rose the purchaser was likely to get less for his money.

In regard to the improved standards of construction that he had noted, Sir Harold Bellman said that it was unfortunate that a similar enlightenment had not yet come to the supply side of the building industry. Builders were surely entitled, he said, 15 years after the war, to be able to rely upon the regular supply and delivery of the materials that they ordered. He hoped that the suppliers and distributors of building materials would put their house in order and take the necessary steps to equate supply and demand.

It was satisfactory, Sir Harold continued, that jerry building was now reduced to quite neglible proportions, but he appealed to those still outside the Council to come in and happily combine their own personal interests with those of their customers.

Referring to the scarcity and high cost of land MR. C. DOUGLAS CALVERLEY, the retiring chairman, said that the only way he could differ with Sir Harold in this respect was to declare that the crisis was already upon the house building industry. No less than 60 per cent of builders who were members of the Council had said that they would be without land to build upon by 1962.

Finally, Mr. Calverley gave it as his opinion that jerry building was still with us, despite Sir Harold Bellman's optimistic views. As evidence of this, said Mr. Calverley, 115 names had—for a variety of reasons—been removed from the Council's register in the past year.

News of the Week

New Honour for Mr. Spence

THE COUNCIL of the Royal Society of Arts has appointed Mr. Basil Spence, OBE, RA, ARSA, PRIBA, to the distinction of Royal Designer for Industry. Mr. Spence is to be invested with the knighthood conferred upon him in the Queen's Birthday Honours on July 5.

Work for Private Architects

ACCORDING to the latest RIBA survey, the value of new work commissioned of private architects in the first quarter of 1960, at £361m., reached a new high level, being one-third greater than in both the previous quarter and the corresponding quarter of 1959. This seems to confirm, says the RIBA, the earlier indication of a seasonal influence in the flow of new work with a peak coming in the first quarter of the year. To what extent there will be a fall in new commissions in the second quarter—or a cancellation or postponement of work also in the pipeline—as a result of the Government measures in April to tighten the credit squeeze, remains to be seen.

Full details of the latest survey will be given in an early issue of 'The Builder.'

ARCUK Annual Report

THE ANNUAL REPORT for 1959-60 now published by the Architects Registration Council of the United Kingdom states that on December 31, 1959, there were 19,183 names on the Register, 196 more than on the same date in the previous year. During 1959 some 845 persons who qualified by examination were admitted and the names of a further 119 who had previously resigned, or who had been removed for failing to pay retention fees, were restored. Two architects were removed from the register under section 7 of the Principal Act, 190 died, 393 resigned and a further 185 were removed for failure to pay retention fees.

Matters discussed by the Professional Purposes Committee included the question of fees for negotiating the sale of land or buildings; exhibitions of selected architectural work; architects' advertise-

'I was a principal in a big architectural firm until I heard what junior assistants were getting!'

ments in the lay Press offering, on behalf of clients, building sites for sale; television advertising; and the formation of limited liability companies by architects. Three prosecutions were instituted under the Architects Registration Act, 1938, and in each case the Council was successful.

Land for Housing Purposes

THE REPORT of the Working Party set up by the National Federation of Building Trades Employers to inquire into land for housing purposes, which has now been submitted to the Minister of Housing and Local Government, describes the present situation as one of crisis, demanding immediate action. In some areas land scheduled for house-building has ceased to exist, it is stated.

The report suggests that all planning authorities should be advised to re-examine immediately the housing situation in their area with a view to zoning additional areas of land for housing at the earliest possible date and that the consideration of such amendments to development plans should be given priority at the Ministry.

With regard to green belts, the report suggests that more favourable consideration should be given to applications to build houses on the fringes of green belts where the land is suitable for building and not an essential part of the green belt and necessary services are available; and that more latitude might be allowed on infilling existing villages and towns in the green belts. It is also suggested that where local authorities acquire land for comprehensive redevelopment, including housing, a greater opportunity should be given to house-builders to contribute. We hope to publish the full report in an early issue.

The Nuclear Power Programme

THE SLOWING DOWN of the nuclear power building programme was announced by Mr. Richard Wood, Minister of Power, in a White Paper presented to Parliament on Monday, the day MP's reassembled after the Whitsun recess.

The White Paper states that 'the Government have decided, in agreement with the authorities concerned, that the national interest will best be served by continuing, for the time being, to place orders for nuclear stations at the rate of roughly one every year. The capacity of individual stations is likely to increase so that the effect of this decision should be a steadily rising rate of nuclear commissioning which should give the country about 5,000 megawatts of capacity (from nuclear power) in 1968.'

Oxford Flats Proposal

FLATS for 200 married couples to be built by Oxford University are suggested as the best solution to the accommodation problems of married graduates by a Committee on Graduates whose report was published on June 16 as a supplement to the 'Oxford University Gazette.'

The committee, set up in November last year by the Hebdomadal Council to 'consider and report on the accommodation, facilities and amenities provided in the university for graduates of this and other universities,' says the flats might be erected in one or a number of blocks which should contain a variety of communal facilities. There is no mention in the report of where the flats might be built or how they would be financed, but a subsidy is regarded as essential.

Gifts to Universities

GIFTS TOTALLING £180,000 have been made by the Isaac Wolfson Foundation to two women's colleges—£100,000 to New Hall, Cambridge, and £80,000 to St. Anne's, Oxford. The gifts will enable both colleges to go ahead with plans for the provision of residential accommodation for the undergraduates.

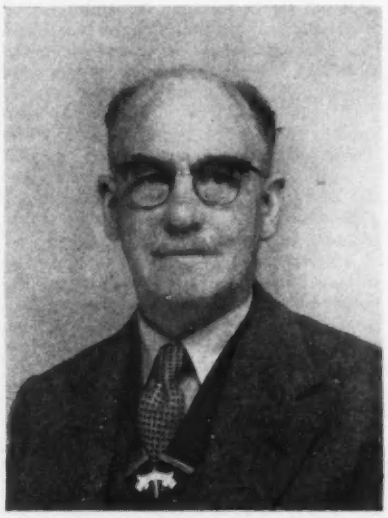
The foundation's grant is the largest single gift received so far towards the £1½m. appeal by New Hall for building and endowment.

National Buildings Record

SIR JOHN SUMMERSON, CBE, ARIBA, FSA, curator of Sir John Soane's Museum in Lincoln's Inn Fields, has been appointed director of the National Buildings Record. He succeeds Mr. Walter Godfrey, CBE, FRIBA, FSA, the 78-year-old architect and antiquary who founded the Record in 1941, as a permanent collection of drawings and photographs of the more notable buildings in the British Isles. Mr. Godfrey is a senior partner in the firm of Wratten and Godfrey, architects, of Abingdon in Berkshire.

Retirement

LONDON TRANSPORT announces that Mr. T. R. Bilbow, FRIBA, architect to London Transport Executive since 1945, is to retire on July 9. Mr. Bilbow joined the staff of the architect to the Underground group of companies as an architectural assistant in 1922, his first task being to prepare designs for the new stations on the Hampstead line (now Northern Line) extension from Golders Green to Edgware.



Mr. L. Scott White, OBE, PPIStructE, MICE, the newly elected Chairman of the Council of the Guild of Surveyors

Research into Hospital Design

THE Newcastle Regional Hospital Board propose to create an Architectural Research Fellowship to further investigation into the design and equipping of hospitals. The appointment will be for three years at a salary of £1,300 to £1,420. Details advertised elsewhere in this issue.

Architects' Estates

MR. W. CURTIS GREEN, RA, FRIBA, of Pall Mall, SW, left net estate of £90,734 before duty (duty paid, £40,933).

MR. ARTHUR J. HOPE, FRIBA, of Atherton, near Manchester, left net estate before duty of £97,569 (duty paid £43,526).

Professional Announcements

MESSRS. HAMMETT & NORTON (MR. R. DEREK HAMMETT, FRIBA, MR. C. A. ROGER NORTON, FRIBA) have taken into partnership MR. THOMAS G. L. HAMILTON, ARIBA. The firm will continue to practise under the style of MESSRS. HAMMETT & NORTON at 29 Sackville-street, W1 (Tel: Regent 1058).

MESSRS. TOWNSEND AND RENAUDON, FFRICS, chartered quantity surveyors, of Stoke-on-Trent and Stafford, have opened a branch office at 46a High-street, Banbury, Oxon. MR. R. DAVIES, ARICS, chartered quantity surveyor, who has been a member of the staff for ten years, is the resident managing surveyor. Trade literature will be appreciated.

MR. T. J. DUDLEY LEWIS, ARICS, AIARB, chartered quantity surveyor, has resigned his appointment as chief quantity surveyor to Mr. Crofton G. Dalzell, and has commenced in private practice at No. 22 New-row, Coleraine, N. Ireland (tel.: Coleraine 2691) where he would be pleased to receive trade literature and catalogues.

A Hundred Years Ago

From The Builder of June 23, 1860

COMPETITION, SOUTH MOLTON.—Sir: will you, as a champion of the architectural profession, call attention to the insulting advertisement headed 'South Molton, Devon,' in your paper of the 16th, in which it is condescendingly stated that 'The person whose plan is adopted will be required to furnish gratuitously a specification and working details'? Twenty-five pounds is the premium generously offered, for which magnificent sum (some 'young person,' perhaps) is expected to do the duty of an architect to a building probably covering some acres of ground.—W.O.

Coming Events

SATURDAY, JUNE 25

YORKSHIRE AND NORTH WESTERN EDUCATIONAL ASSOCIATION FOR THE BUILDING INDUSTRY.—Joint conference on 'Builders of the Future.' Queens Hotel, Leeds. 10.30 a.m.

MONDAY, JUNE 27

RIBA.—Library Group meeting. 66 Portland-pl., W1. 6 p.m.

LONDON ASSOCIATION OF MASTER STONEMASONS.—Presentation of 1960 prizes to stonemasonry apprentices in London Region. The County Hall. 7 p.m.

WEDNESDAY, JUNE 29

VITREOUS ENAMEL DEVELOPMENT COUNCIL.—Illustrated Lecture: 'The Application of Vitreous Enamel to th Decorative Arts,' by Mr. E. Winter. RSA, John Adam-st., Adelphi, WC2. 6 p.m.

FRIDAY, JULY 1

ARCHITECTS' BENEVOLENT SOCIETY.—Midsummer ball. RIBA, 66 Portland-pl., W1. 8.30 p.m.

They don't take chances —

ask for COLEMANOID

by name!

Castrol Wakefield's garage at their new office block (a development of the Hammerson Group of Companies) has had its floor oilproofed with Colemanoid No. 1. Yet another famous name has been added to the growing list of nationally-respected companies who recommend and use Colemanoid.

Added to the gauging water, Colemanoid No. 1 produces a hard, dense concrete that will not dust or flake under heavy industrial use and is

WATERPROOF
DUSTPROOF
AND OILPROOF

For a cost of from 1/- per yard super Colemanoid No. 1 permanently proofs a sand/cement or granolithic screed 1" thick and greatly increases its resistance to acid attack.

PLEASE WRITE FOR A COPY OF BULLETIN No. 11

THE ADAMITE COMPANY LIMITED

94-98 PETTY FRANCE, LONDON, S.W.1.
Telephone: ABBey 5911

E

41 EAGLE STREET · HIGH HOLBORN · LONDON, W.C.1 Chancery 7422-3-4

BRANCHES:
SOUTHAMPTON:
151 ROMSEY ROAD, SHIRLEY
SOUTHAMPTON 73176

JOINERY WORKS:
GRESHAM WORKS, SOUTH NORWOOD
ADDISCOMBE 1264

BRANCHES:
SMALL WORKS DEPT.:
COPTIC STREET, LONDON, W.C.1
MUSEUM 3705

Urban Renewal

Architects' Conference Report Continued

The County of London

BY HUBERT BENNETT

AT THE PRESENT rate of development one half of the London scene will have been planned and rebuilt by the turn of the century. The London that will emerge will result from the London County Council's effort to weld together some half a million planning applications. Rebuilding is taking place in greater volume than ever before, and unless carefully controlled and restricted in the central areas, and encouraged in the middle and outer parts of the metropolis, the present intolerable congestion will steadily worsen.

Boom conditions have brought more and more employment and traffic to the centre and without planning restraint it is clear that all essential activities and movement will be threatened. All new building in the Central Area tends to increase employment and traffic. This is a very real problem and the main cause of congestion.

Parking.—Since the war 16,000 car-parking spaces have been provided in new buildings, to conform to the LCC's planning standards. But the parking problem can only be controlled by underground and multi-storey garages. Some 30 to 50 multi-storey car parks holding up to 500 cars each may well be necessary to clear up the problem of parking in inner London. Full provision for all present long-term parkers in inner London could involve car parking for 30,000 cars, involving capital investment of some £45m.

Unless, at least in the initial stages, the Government is willing to give financial support to a specific programme for the provision of multi-storey garages in inner London by local authorities the garages are not likely to be built in the numbers and at the speed which the circumstances require.

Dispersal of Offices.—The policy of the LCC is to take office work to the suburbs or to new and expanding towns where the office workers already live. The capital cost of accommodation in the country may be anything up to £1,000 less per head than comparable accommodation in the centre. The net saving in total operating costs of decentralised staff is about 7½ to 10 per cent per annum. The construction of new offices in the suburbs can often facilitate major redevelopment projects for old district centres, reduce peak transport flow and provide traffic in the opposite direction.

Comprehensive Development

The most significant advance in town planning in London in the last 15 years has been in the comprehensive planning of nearly 6¼ sq. miles of the county. Comprehensive planning has achieved economies to the community and much greater efficiency, and is the only way of making redevelopment coherent in terms of London as a whole, although it does not necessarily produce good architecture. The early planning stages may take longer, and be intricate, difficult and often frustrating, but in this day and age pre-planning is as essential in urban renewal as in industry.

In Stepney-Poplar the construction of new schools, open space and commercial developments has been severely curtailed until recently by financial restrictions. The cost of comprehensive development is a major problem, aggravated by the fact that there are no longer special grants as there were under the 1947 Act.

National Need for Architect-Planners.—There are by now probably enough first-rate architects among the 18,000 members of the profession to raise the level of architecture in this country to a high standard. There is, however, a very great shortage of architect-planners with advanced training and experience. Yet from the point of view of the future of our towns, particularly their central areas, the contribution the skilled architect-planners could make is of the greatest consequence. The purely architectural work of an individual building is only one element of an architect's contribution.

New Circumstances Demand New Ideas

BY ARTHUR LING

WE ARE IN THE OPENING PHASES of a complete reshaping of our old towns, but the beginnings that have so far been made have been confused and hesitant. The problems do not seem to have been properly analysed, we are not clear about the new city we wished to achieve, and the administrative and financial arrangements are as inadequate as our technical approach.

All that is being achieved is a renewal of buildings, not a renewal of the town. There is no drastic reshaping to meet the social and technical problems of the next 100 years. There is alarm at the developing chaos in our towns.

The Piccadilly Circus inquiry revealed how difficult and uncertain was the position of even the largest and wealthiest local authority in the country in its attempt to secure comprehensive redevelopment in an area of international fame and significance.

The 1947 Town and Country Planning Act provided a basis for comprehensive redevelopment by the public authority, but there is nothing equivalent that would produce the same or better results on the basis of private enterprise. The stumbling block of compensation and betterment still remains.

Can Private Landowners Combine Their Sites?—High interest rates and increased land values make it impossible for local authorities to own land on a scale necessary to bring the comprehensive development procedure into operation, unless interest and capital payments can be reduced or waived in the first three years. If the emphasis is to be on private ownership, then it is essential to find some way of bringing all the private owners of land together in a consortium.

Must there be haphazard competition between development companies, insurance companies, contractors and banks for sites or property take-over bids, with a consequent haphazardness in town design, or can they find some way of working together? If not on an entirely voluntary basis, can the Government intervene in the same way as it has recently in the field of aircraft production when national interests are involved?

Unless positive steps of this kind are taken to secure comprehensive land ownership the possibility of design co-

Mr. Harry Seward (convener, Dinner and Reception Committee) with Mrs. Seward

Two Secretaries: Mr. Gordon Ricketts (left) and Mr. C. D. Spragg

Mr. and Mrs. Haydn Smith (Manchester). Mr. Smith was Convener, Publicity Committee

ordination will inevitably be deferred until a much later stage when the possibilities of success are negligible.

A Challenge to Private Enterprise.—Is this not the moment for some rethinking on planning legislation? I am convinced that there must be large-scale ownership, either public or private. I cannot recall any comprehensive design that has been achieved without it. If a private consortium could be created, might the local authority not be assisted to assume the role of the large-scale landowner on a basis that would leave private enterprise the main initiative?

Why not turn all land in defined decaying areas ready for comprehensive development into leasehold land, the present owners paying a peppercorn rent until there was a change in use or accommodation that would entitle the authority to charge the appropriate ground rent, and so enable the community to benefit from the enhanced values it creates? If private enterprise is to have the main initiative then it must accept and answer the challenge of how our city centres are to be rebuilt.

Half the property investments are said to be held by four insurance companies, so that without much difficulty a policy of comprehensive development could be encouraged by those who make the financial decisions.

'Competition by Tender'

The RIBA should discourage primarily financial 'competitions by tender' between developers for central sites, and should encourage either the preparation of a scheme by the local authority's chief architect or by a private consultant, or an architectural planning competition to choose the best scheme, on which developers would tender. Architects are often asked by developers to prepare a scheme without payment on the chance that it will be successful. Is it, or is it not, a breach of the architect's code of conduct for him to work on a speculative basis?

Boroughs without an Architect.—With so many redevelopment schemes in the making it is disquieting to find that 37 important county boroughs, with a total population of over 3½m., are still without a chief architect in charge of an independent department. Between them these boroughs face an annual building programme of the order of £100m., not including private development which requires co-ordination by the architect.

The Private Car.—It is going to be impossible to redevelop urban centres on the assumption that everyone is going to travel everywhere by private car. A French engineer has calculated that in a town of 5m. people there would be, on an unrestricted basis, a tidal flow of 500,000 vehicles an hour for which 60 motorways, each with 9 traffic lanes, would be required.

Such a solution is physically and financially impossible, quite apart from aesthetic objections. Only by spacing cities out at very low densities, which means abandoning the city as we know it today, and the country too, could the space required for roads and parking be provided. Priority should be given to public transport, which needs positive support and development, and unnecessary traffic eliminated by rationalising the location of shops, offices, factories and institutions that determine the main traffic flow.

The right solution can only be found if we look at the whole city and the whole problem. In planning, people are more important than vehicles. Different levels can give segregation of pedestrians from vehicles in city centres, which might become one large building with shops, concert halls, and offices all approached from internal covered areas.

The more creative town planners we can train, and the more evidence of creative town planning we can produce, the stronger will be our claim that sterile and bureaucratic town planning controls should be set aside. At present architects themselves produce the evidence of the need for controls. There is need to educate the architectural student in civic design, to hold advanced courses for architects in comprehensive development and urban renewal, and theoretical studies on the form of future cities are desirable.

New Act Needed?

An Urban Renewal Act?—Several Ministries are concerned with city rebuilding at Government level. Would it not be possible to form an Urban Renewal Cabinet from Ministries concerned (to make sure there is a common objective and to simplify procedure), pass a special Urban Renewal Act to provide administrative and financial procedures for defined areas covering all aspects of development, and form an Urban Renewal Advisory Committee to provide a meeting point for the building industry, development companies, insurance companies, banks, local authorities and the professions?

"Lessons of the New Towns for the Old Towns"

BY L. HUGH WILSON

THE GOVERNMENT should develop one or two new towns as laboratories for research into methods of design and building, and forms of living for the future. Cumbernauld is a new town based on the principle that the basic human needs of urban living can best be met by compact planning, obtained not by lowering standards but by higher densities and complete integration of the space consuming elements in the town.

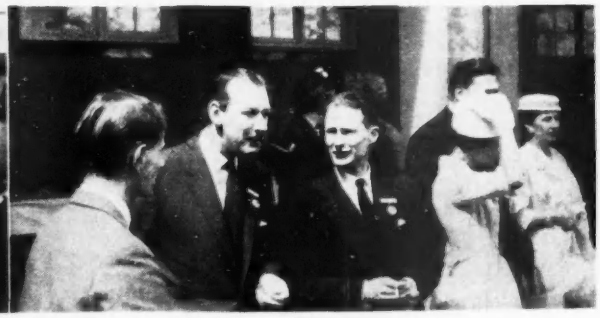
The innovations at Cumbernauld include the abandonment of the neighbourhood unit principle, the siting of industrial buildings (but not noxious or nuisance industries) in residential areas, the provision of a completely separate pedestrian footpath system to which schools, shops, pubs, and churches are related, and a system of urban motorways to cater for the heavy volumes of traffic anticipated in 15 to 20 years' time when 70 per cent of all families have a car.

Detailed consideration is being given to a multi-level linear town centre, in which the vehicular roads and access are at a lower level.

Separation of Vehicles and Pedestrians.—The first lesson for the old towns from the experience of the new towns is the need to organise, within the overall town plan, an adequate pattern of communications with the maximum separation of vehicles and pedestrians.

Any traffic study in Britain is made against an inadequate background of research. If in every town traffic projections could be carried out on lines similar to those adopted at Cumbernauld (where traffic movements have been forecast 15-20 years ahead) the results would certainly be staggering, and would raise the question whether it was feasible within existing towns to provide for cars on the scale of, say, 1.4 cars per family (20,000 cars in a town of 50,000 inhabitants), even with major redevelopment.

L to R: Mr. L. Hugh Wilson, Mr. C. D. Spragg (back to camera), Mrs. Ricketts, Mr. G. Ricketts and Miss Jane Drew



Mr. Arthur Ling (with pipe) and Mr. J. B. Hope (on left) and Mr. A. J. Hope (of Bolton)

For design, finish... choice of sizes and colours, Architects and Builders need look no further than Bilston, the Bath Specialists.

ATLANTA
MAGNA
CRESTA
MARINA
MERMAID
BERMUDA
PRINCESS

BILSTON

Illustrated literature sent on request Bilston Foundries Ltd, Bilston, Staffs

FALKUS

BROS. LTD.

BUILDING CONTRACTORS

CRAFTSMANSHIP
THROUGH APPRENTICESHIP
is our watchword and to do things finely and thoroughly is our endeavour.

The FALKUS ORGANISATION
has achieved in no small degree the satisfaction which derives from good workmanship and a worthy Clientele gives hearty assent.

46 · BISHOPSGATE · E.C.2

Telephone:
London Wall 1876 Bishopsgate 3381-4 (4 lines)

Telegrams:
"Falbrowok, Spimark, London"

In existing small towns particularly those with historic centres, the exclusion of vehicles from the core may well be the only alternative to the destruction of the town. The small town cannot generally support an efficient public transport system. More compact planning with higher densities close to the centre can help to reduce vehicular movements in the town, as well as consolidating its function as a pedestrian meeting-place.

Shopping Centres

Nearly all the current schemes for central area redevelopment are based on the pedestrian access principle for at least some of the shops, and generally there is protection for shoppers from the rain. All this shows a great advance in the commercial approach to the problem of designing shopping facilities. But the perspectives are not so promising, embellished with patterned pavings, planting, fountains, and pretentious cliché-ridden architecture, and as examples of comprehensive planning most of the schemes fail.

It is the duty of the planning authority to ensure that such schemes fall into the general pattern of urban renewal for the town, with particular reference to access for vehicles and pedestrians, car parking and phasing. I would make a plea for simple buildings, some of them single-storey, perhaps, with a lack of affectation and pomposity.

Multi-Level Circulation.—The segregation of pedestrians and vehicles in shopping centres is essential, but it is doubtful whether, except in small towns, the pedestrian shopping precinct surrounded by access roads and car parks is capable of being developed much further. Some very satisfactory examples are in existence, but the large area required for car parks presents a visual problem and a physical barrier, and the approach by car is always to the backs.

The ultimate solution of multi-level centres, with cars and pedestrians separated vertically, is likely to be more satisfying functionally and visually.

Flats Need Amenities.—In housing, particularly near the central area, there was likely to be a need for multi-storey blocks with lifts. But if people were to be satisfied to live in flats or maisonettes they must be provided with amenities better than those in a house with direct access at ground level — convenient access, sufficient space, facilities for storage and drying clothes.

Changes in Shopping.—The current methods of assessing shopping needs are unscientific in the extreme. There are likely to be considerable changes (large-scale distribution, the decline of the independent trader, growth of multiple organisations, self-service and automatic selling) in the pattern of retailing, which will have a profound effect on the design of shopping centres which must be able to adapt themselves to unforeseen changes if they are to avoid obsolescence. The essential need is flexibility in the use of space, which might well lead to larger building units on a more comprehensive basis than hitherto.

Four Official Architects: left to right: Mr. S. A. G. Cook (Holborn), Mr. John Dryburgh (Cardiff), Mr. F. G. Southgate (Walthamstow) and Mr. Johnson Blackett (Newport, Mon.)

Comprehensive Development

While commercial areas will be developed for economic reasons, the redevelopment of obsolete housing areas is unattractive to private enterprise, and it is difficult to see what contribution to urban renewal can be made by the smaller local authorities. This is a matter for Government study and action, as part of a comprehensive urban renewal policy. Three points stand out:

(i) Slum clearance is obsolete in effect since the aim should be redevelopment and not merely clearance. Instead there should be comprehensive development areas.

(ii) Town planning grants should be restored for such areas.

(iii) Since road improvements would be the occasion for much redevelopment, it is essential that grants should cover the whole area required for redevelopment, and not be restricted (as at present) to the land required for the road.

The Architect in Town Planning.—The architect is in a strong position to fill the role of leader of the technical town planning team (all the members of which have a vital role to play), but only if he has ability to work in a team, has the faculty of leadership, and has taken a post-graduate course in planning. We must prove ourselves worthy of this position, and not expect it by right.

Discussion

Opening the discussion, MR. H. S. HOWGRAVE-GRAHAM (Crawley New Town) said that the subject of the conference was one of the most vital facing the country and the architectural profession. He would like to make one or two suggestions. On car parking, it must be decided, if a solution was to be found, who was entitled to park a car and who was going to pay for it. In new office buildings, one car space for every 350 sq. ft. of office space was being required; either the motorist or the developer would have to face the cost. He had been interested in what Mr. Hugh Wilson had said about Cumbernauld; it was an experiment, as all new towns should be, but he (the speaker) would quarrel over putting neighbourhood planning into the dustbin; such planning could be a most useful solution, in its proper place. On Mr. Ling's paper, he would put in a plea for public ownership as being preferable to private ownership in central redevelopment areas.

'And finally,' said Mr. Howgrave-Graham, 'may we have more leadership from the Ministry of Housing and Local Government?'

MR. NOEL TWEDDELL, OBE FRIBA, representing the Civic Trust and SPAB, expressed the view that under existing planning machinery we could not redevelop our cities. 'On the one hand there are the local authorities which can get the land but which cannot meet the financial calls. The present planning Acts do not make any satisfactory contributions to the problem, and I would support Mr. Ling's scheme for comprehensive plan approval.' There was, in his view, a split at all levels between planning and traffic responsibilities, and until that split was healed we should not get anywhere.

'The New Towns,' continued Mr. Tweddell, 'could not have been built by the same procedure that we are using in trying to rebuild our city centres. The New Towns Act followed a report by the Reith Committee, and it may well be that a Reith Committee on urban renewal is needed to outline possible machinery. The public is not apathetic, but it wants a lead, and it is up to architects to give that lead.'

MR. ALWYN SHEPPARD FIDLER (Birmingham) made the point that many city and borough architects were not planning officers in their own municipalities; it was right that they should be, and the RIBA should press for fuller participa-

Mr. Hubert Bennett (centre) with Mr. R. McKown (left) and Mr. Alec Faldo

tion by city architects in the planning field. As to urban renewal, very few people knew how difficult the problems could be. He was interested in Mr. Ling's proposal that local authorities should buy areas and let them out to private enterprise; it was an enormous job and we should tackle the problem at once.

MR. A. W. CLEEVE BARR (Ministry of Housing) said that the RIBA had many tasks ahead of it, but (though architectural education was almost as important) he thought that the Institute should concentrate its energies and available funds over the next few years on urban renewal. 'Up to now the RIBA has been backward in taking the lead, but I hope it will now go forward. Do we not need more permanent staff at the RIBA to do this work?'

The conference then adjourned until Friday morning.

Sir Keith Joseph's Address

THE CONFERENCE RESUMED on Friday morning when SIR KEITH JOSEPH, BT (Parliamentary Secretary, MoHLG) gave an address in which he described as 'groundless' any fears that the Government was weakening on its policy on 'green belts,' though 'occasionally it is necessary to put up the odd building in a green belt for national purposes. I have in mind,' Sir Keith said, 'such things as schools or institutions which require that particular type of surroundings.'

Sir Keith began his address with a survey of the housing situation in which the Government, he said, had laid down priorities. First came, he said, slum clearance in which field it was expected that 60,000 old properties would be cleared within the next three years. Next came housing for old people; and thirdly what Mr. Hubert Bennett had aptly described as redevelopment of 'twilight areas.' In all this work the quality of design and landscaping must be improved and it should be remembered, in so far as private enterprise housing was concerned, that poorly-designed buildings would not necessarily maintain their scarcity value as the overall stock of dwellings increased.

Private enterprise had a great chance in the redevelopment of the near-slums, the 'twilight areas.' It was not too much to hope that private developers would acquire such property, and hold it for a time until enough had been acquired to develop on a composite, comprehensive scheme.

Speaking on the subject of city centres, Sir Keith said that he would require a good deal of convincing that taxpayers should be called on to help the ratepayers in re-developing the most remunerative parts of their towns. He thought that ownership of these areas should remain with the local authority. 'There is no evidence that I can see why there is need for new legislative provisions or for any specific amendment of the present Acts,' said Sir Keith. 'There is much more that can be done through existing powers.'

Three Suggestions

Sir Keith put forward some suggestions for consideration by the Conference. First, with regard to traffic, he thought that there was not enough consideration given by architects and planners to ways and means of separating pedestrians from traffic. Second, with regard to redevelopment in central areas, much more could be done to improve appearance by simple 'face-lifting' of buildings; properly carried out it could be a useful second-best. Third, in redevelopment, we did not want to see the process continued of separating offices and housing, a process which caused the City to become dead at night. For that reason he welcomed the Barbican scheme.

'All this,' declared Sir Keith, 'is a challenge to the architect. Architects must study their own lives, for they have sometimes been like spectators at a football match who complain from the sidelines but play no active part in the game. And local authorities must seek the advice of architects on matters concerned with design, especially on the great issues of urban renewal.'

The Green Belt Question

Sir Keith then spoke on the subject of the green belt. He was glad, he said, to have the chance of refuting certain statements that had appeared in the Press to the effect that the Government was weakening in its policy to preserve the green belts. 'I would remind you,' he said, 'that green belts are only established once they have been approved by the Minister. Nevertheless, once a local authority has submitted plans for a green belt, any planning applications received during the period before it is confirmed are treated as if the green belt had been established. This reaction to post-proposal planning applications is adopted right up to the time the Minister gives his decision on the application.

Mr. W. C. Young (chairman Conference Exhibition Committee) with (right) Mr. J. H. Forshaw

'Occasionally, it is necessary to put up the odd building in a green belt for national purposes. I have in mind such things as schools or institutions which require that particular type of surrounding. But I would appeal for the use of some common sense on the problem; there are obvious cases—such as the existence of one field surrounded by buildings—where the line of the green belt must be redrawn.'

Ministry's Research Unit

In all these questions of urban renewal with which the green belts were closely connected, the Ministry of Housing and Local Government had several difficult rôles to play, said Sir Keith. Among them were helping local authorities in their slum clearance and rehousing work and also studying how the planning acts could be improved. 'We have,' he added, 'set up a small research unit at the Ministry to examine problems of urban renewal, and it is hoped to carry out some practical experiments.'

Questions to a Panel

MR. SPENCE then acted as chairman of a panel which answered five questions that had come from a study group held since the Thursday session. Members were Sir Keith Joseph, Mr. W. C. Webb (Deputy Chief Valuer, LCC), Dr. A. H. Marshall (Coventry City Treasurer) and Professor Williams (Professor of Traffic Engineering, King's College, Durham University). Following are the questions and answers:

It has been said that if development is allowed to continue piecemeal and to an out-of date pattern for five or ten more years, it will be almost impossible to change the basic town plan. Does the panel agree about the urgency, and what does it consider the most important immediate action to be taken? Does it favour such proposals as an Urban Renewal Advisory Committee or an Urban Renewal Act?

MR. WEBB thought that to bring procedure up to date was a very sensible suggestion. MR. MARSHALL said that urban renewal needed to be established as a field of competition for public activity. This was a matter of real urgency. It should not be beyond the capacity of local architects working with the local authority to work out a scheme; it might be remembered that the first plan for rebuilding Coventry after the blitz was worked out by architects in their own time. But no one should think it was an easy job, for urban renewal impinged on many other subjects. MR. WILLIAMS thought that comprehensive planning must come, and that planning of roads layout must precede planning of the buildings. SIR KEITH JOSEPH said that there was plenty we could all do with the law as it stood, but any useful ideas which came up would be closely studied by the Ministry.

The techniques of urban renewal and city design today require the development of very large areas of land within a single ownership or control. How does the panel consider that this could be achieved, and what solutions can it offer

on every building project

GERRARDS of Swinton

EXPERIENCE COUNTS

J. GERRARD & SONS LTD., SWINTON, MANCHESTER

Building and Civil Engineering Contractors

Branches at London and Ipswich

J. Gerrard & Sons Ltd. are pleased to have been associated as main contractors with the further development of the Granada Television Centre.

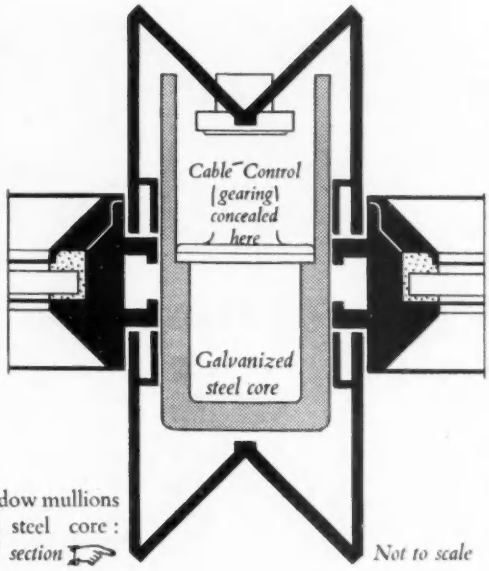
HOPE'S aluminium windows

UNITED STATES EMBASSY, GROSVENOR SQUARE, LONDON

Architects: Eero Saarinen & Associates, U.S.A. Associate Architects: F. R. S. Yorke, E. Rosenberg & C. S. Mardall, FF.R.I.B.A.

Ground floor windows are gold anodized aluminium with horizontally sliding vents at head operated by our Cable Control gearing concealed within the window mullions.

Other floors have hot-dip galvanized steel windows *(special fittings were designed, and in many cases, concealed, inside the window frames)* with featured mullions in gold anodized aluminium. Metal window boards, heating grilles, and trim accommodate curtains and avoid costly plastering.



GOLD ANODIZED window mullions with hot-dip galvanized steel core: *typical section*

Not to scale

HOPE'S WINDOWS
The Name Guarantees

HENRY HOPE & SONS LTD
SMETHWICK, BIRMINGHAM
LONDON: 17 BERNERS ST., W.1

for the problem of compensation and betterment?

MR. WEBB said that several answers had been given in the various Planning Acts, but broadly speaking we had not solved the problem of betterment, we had just abandoned it. Inherent in the question was the idea that central land development must cause land values to rise; he was not convinced that the value of the new assets was always greater in terms of land value, though it might be in terms of social improvement. MR. MARSHALL thought that we were apt to think that everything should happen all at once. There had been great advances in public ownership of central sites, but this was not always possible. Some of the proposals put forward were interesting but he could see tremendous advantages in local authorities owning land. The progress made in Coventry and in the New Towns proved it. The problems of betterment were then solved for ever. SIR KEITH JOSEPH said that there was nothing to stop local authorities negotiating peppercorn terms when acquiring property. Powers were possessed by the Minister to approve arrangements of this kind.

Attention has been focused on the Ministry of Transport which it has been said does not know what to do with the traffic and is lagging behind in road planning. Does the panel agree, and how does it consider that road planning can best be integrated with regional and town planning?

MR. WILLIAMS thought that the Minister of Transport's idea of setting up regional traffic committees was a good one, but he should now go further and set up a study group to get basic data; this should be at work now. It was a sorry thing that planners should be relying on casual contributions got together by professional or technical bodies. One single profession alone could not accomplish what was wanted. MR. WEBB said that to get new roads one had to acquire property and then to remove and rehouse people.

It had been said that green belts were finished unless action be taken to relieve the pressure on them by a continuous policy of building new towns and renewing old ones. What are the views of the panel?

SIR KEITH JOSEPH said he was glad of the opportunity to refute the idea that the Ministry of Housing and Local Government had gone away from the policy of protecting green belts (applause). But green belts could only make sense if there were places where people could build, and that was why the policy of the expanded towns was so important. His Minister, Mr. Brooke, had said that additional New Towns were not necessarily to be excluded from consideration. MR. WEBB said that the policy of the expanded town could greatly help, and there were some towns which, with the help of the LCC, were now taking on a new lease of life.

The study group felt strongly that the older industrial towns which were not attracting developers and were decaying should not be left to rot but required energetic Government assistance. Does the panel agree, and what form might this assistance take?

MR. MARSHALL said there was great need for grants for such towns, though it must be recognised that there were some towns where such operations would not be remunerative. There would inevitably be some cost to public funds. Co-operation between the local authority and the Government was essential. SIR KEITH JOSEPH pointed out that such towns already got the lion's share of the Rates Deficiency grant. He recognised, however, that this was a problem, and it was one which the Ministry's urban renewal study group would be looking into.

Sir Thomas Bennett's Analysis

In a summary of the discussion up to that point, SIR THOMAS BENNETT, KBE, FRIBA, said that the question of urban redevelopment fell under three heads. First came the redevelopment of town centres. This, he thought, was the easiest part of the problem, for such sites were highly profitable, but it had to be recognised that the developer, whether public or private, had no idea of what the Ministry of Transport proposed for traffic needs.

'The Ministry of Transport,' declared Sir Thomas, 'is hopelessly behind its job. Unless it can produce its information much earlier and in a much more definite manner, it is going to hamper planning.' Piecemeal planning was no good, he continued. Comprehensive planning was essential, and comprehensive land ownership in some form or another was necessary, though he recognised that there were grave difficulties in the way.

The second form of urban development were the so-called 'twilight areas,' where the essential problem was to apply modern intelligent ideas of living to areas created in a different age. 'This problem, too, must be tackled quickly for even if everyone concerned begins to consider the implications now, it would yet be several years before a programme could be ready for the building industry.'

The third facet of urban renewal was the problem presented by those towns which were scabs on the countryside—towns which were often concerned with pottery, coal and cotton. These could not claim to have a very bright future unless they took advantage of the Expanded Towns Act and made efforts to get new industries and to expand.

Collaboration Between Ministries

'The most serious thing,' continued Sir Thomas, 'is the divorce between the Ministries of Transport and of Housing and Local Government and the Board of Trade. These should combine forces with other interested agencies to set up a joint body which should study the problems we are discussing today, even if it did take them ten or fifteen years. Unless some body such as this is set up, we shall not arrive at any solution.

'Also, we strongly feel that the Ministry of Housing and Local Government, with "Planning" added to its name, should have a bigger say in development rather than the needs of towns being divided among the Ministry of Transport for roads and the Board of Trade for industry.'

Discussion

MR. D. RIGBY CHILDS said he had been reading the principal papers in conjunction with Mr. William Allen's paper read recently to the RIBA, and he felt that architects' responsibility needed defining, as designers of buildings and designers of environment. At the beginning of this new phase of development in the Institute's progress, we should bring together people who could find out what made a town 'tick' and study the whole field of environmental design. Unless the profession did this, it would not justify any opinions it might publicly offer.

COL. L. K. WATSON felt that it was necessary to have a new Ministry of Planning and Redevelopment, or of Redevelopment and Planning. Sir Keith Joseph had said that nothing needed to be done with the Planning Acts if councils made proper use of them and of the advice that was available. But most of the Councils were not experienced, and were easy prey for the developers (applause). As to the Green Belts, Sir Keith had got a different picture from those who lived, as he (the speaker) did, in one of them. Quicker decisions on applications would much help in solving problems. On redevelopment of central areas, he would like to suggest that if money were made available for this purpose, it should be conditional that the Minister was satisfied that proper professional advice had been sought. 'The public' declared Col. Watson, 'is browned off with planning. No one explains it, and something must be done to remedy this; it requires a good prodding from the top.' There was also great waste of potential material in the failure to use the services of private town-planners.

MR. J. E. TYRRELL (Gosport) was concerned with the position of smaller local authorities. He said that new legislation must be introduced to allow private enterprise to play a part in redevelopment. The solution to the roads problem in towns lay, he felt, in the multi-storey garage; Government help was needed to acquire sites early. As to the green belt, contrary to anything Sir Keith Joseph might say, it was being nibbled away.

MR. F. W. DAVEY (Stepney) said that redevelopment of the 'twilight areas' and of the out-town development should go on together.

MR. J. L. BERBIERS (Canterbury) thought we were in danger of creating hygienic slums in the form of great blocks of flats and houses on the outskirts of many country towns, depressing in the extreme.

SIR THOMAS BENNETT (London) interposed a few words on multi-storey garages. Private enterprise, he said, could provide those garages if the Government gave a firm decision that street parking would be banned in urban areas. There would be no difficulty over money if this could be made available over 60 years instead of the present 20; then there would be no need for subsidy.

MR. BRIAN BUNCH (Northampton) said that only two speakers in two days had mentioned the people. We could all do a great deal as individuals, he said, in preaching the gospel of amenity planning. It was as important to speak to the people as to Ministers.

MR. C. H. ELSOM (London) said he would like to ask the Minister two questions. First, Sir Keith had said that protection was only given to green belts that had been ratified. How many of these were there? He (the speaker) had an awful feeling there were only two. Second, Sir Keith had advised councils wishing to undertake redevelopment to acquire land on peppercorn terms. Did this mean that Mr. Bennett, the LCC architect, could now ask Mr. Brooke for £50m. to take over Piccadilly?

SIR KEITH JOSEPH said that he could not say how many green belts had been designated, but he would repeat what he had earlier said: namely that from the moment an authority put in a scheme, planning applications were treated as though the scheme had been designated. With regard to Mr. Elsom's second point, any authority was free to put in an application for help in acquiring central sites; his Minister was also free to do what he liked! But a number of local authorities were making use of this kind of procedure.

MR. H. S. HOWGRAVE-GRAHAM (Crawley) said he would like to see every county and borough council employ a landscape architect to make sure that in urban renewal there was no spoiling of what was already pleasant.

SIR WILLIAM HOLFORD (London) spoke on the problems of multi-level living in central areas, and of the need to segregate traffic and pedestrians. The question of pedestrians and of their rights on the roads should be considered by the Ministry of Transport as part of road planning. He (Sir William) visualised escalators and even moving pavements in busy cities.

Summing-Up of the Conference

Summing-up the conference, MR. E MAXWELL FRY, CBE, FRIBA, recommended a commission of inquiry which would propose some unified machinery for carrying out the tremendous task of making Britain a better place to live in. 'Much of the discussion has ranged round points of detail,' said Mr. Fry, 'but that should not disguise the fact that architects, deep down in their hearts, feel that something is wrong with the present planning set-up and that this must be put right.'

The Conference Banquet

'A Bright Future for Architects'

THE FUTURE had never been so bright for architects as it is today, said MR. BASIL SPENCE, KNIGHT-DESIGNATE, president of the RIBA, at the Institute's dinner in Manchester on Friday at the end of the annual conference. 'Never have opportunities existed as they do now. The future is in your hands, and it is a bright one.'

Summing up at the end of his two years' presidency of the Institute, Mr. Spence said it was intended to raise the educational standard and the standard of entry into the profession. If he had any criticism it was of the attitude of younger architects to the older members of the profession. 'It is a bad thing. We must be a solid profession and we must put up a solid front. Of course, we have our cranks. I always think of cranks as roughage, and roughage is essential to good digestion. Let us welcome our cranks; let them always be with us; and let them be in the right proportions,' he said.

Referring to his recent visit to New York, Mr. Spence said he had seen some 'crisp, clean, cellophane-wrapped buildings, with repetition for the sake of repetition, gimmicks for the sake of gimmicks, and gadgets for the sake of gadgets.' And he added: 'Let's not try to match them.'

SIR WILLIAM HOLFORD, president-elect, in proposing 'the guests' referred to the boom in building. The conference had thrown up the need to secure co-ordinated development which was comprehensive enough to secure traffic improvements; to combine public advantage with private profit; and to enable a first-class, instead of a partial and second-rate job to be made of urban renewal.

'Architects must learn to combine with members of other professions to achieve this, and I hope that developers will also combine so that we may get the most out of our cities,' he said. 'If architects are given the tools they can finish the job, and if they are given the confidence of the public and developers they will undertake to provide better service, and, in the end, cheaper buildings with designs that touch the imagination and do something more than just meet a schedule.'

Sir William thanked the Minister of Housing and Local Government, Mr. Henry Brooke, for dealing with the Piccadilly Circus inquiry 'so seriously and so well.' It had been hard luck on Mr. Jack Cotton, he said, to find himself the centre of a 'cause celebre' as the result of an unlucky Press conference. The Minister had recognised there were important principles at stake and had treated Piccadilly as a test case.

The ball was now back in the architects' court and a comprehensive design had to be worked out with many people interested in what was going to happen. 'But at least the occasion has been remade, and we have another chance to rise to it,' Sir William said.

Sir William referred to the part being played by the Press in 'this critical situation,' and praised the many pre-conference features in the technical Press which had focused so much attention on the theme of urban renewal.

Other speakers at the dinner were the Vice-Chancellor of Manchester University, PROFESSOR W. MANSFIELD COOPER, who stressed the need for education to maintain and improve professional standards, and DR. D. W. L. GREER, the Bishop of Manchester.

Those present included:

Mrs. Basil Spence, Mrs. W. M. Cooper, Mr. and Mrs. Norris M. Agnew, Professor R. A. Cordingley, Mrs. W. D. L. Greer, Sir Thomas Bennett, Sir Gerald Barry, Mr. and Mrs. A. G. Sheppard Fidler, C. D. Spragg, Professor J. S. Allen, Mr. and Mrs. S. D. Cleveland, Mr. and Mrs. Roland Thomas, Mr. and Mrs. Hubert Bennett, Dr. B. V. Bowden, D. Benton, J. H. Holden, Mr. and Mrs. T. Woolfenden, Professor J. E. C. T. White;

William A. Allen, Mr. and Mrs. E. H. Ashburner, Mr. and Mrs. Grenfell Baines, J. Austen Bent, Mr. and Mrs. Eric Bird, Johnson Blackett, Mr. and Mrs. B. Boothby, Dr. and Mrs. R. Bradbury, Mr .and Mrs. James W. Buchanan, Mr. and Mrs. T. J. Cahill, Mr. and Mrs. James L. Caldwell, Mr. and Mrs. Harold Conolly, Mr. and Mrs. R. A. Cooksey, Mr. and Mrs. John H. Crowther, Mr. and Mrs. Clifford Culpin;

A. H. Devereux, Mr. and Mrs. S. B. Downs, Miss Jane Drew, Mr. and Mrs. C. H. Elsom, Mr. and Mrs. Harry Fairhurst, Mr. and Mrs. I. G. Fairhurst, Mr. and Mrs. P. G. Fairhurst, J. McDonald Fairweather, Mr. and Mrs. E. A. Ferriby, J. H. Forshaw, Maxwell Fry, Mr. and Mrs. S. Gee, Mr. and Mrs. W. A. Gibbon, D. E. E. Gibson, Mr. and Mrs. J. Gomersall, Alex Gordon, Mr. and Mrs. G. L. Greaves;

Mr. and Mrs. F. Leslie Halliday, Professor and Mrs. Denis Harper, Mr. and Mrs. G. Noel Hill, Mr. and Mrs. Leonard C. Howitt, Mr. and Mrs. Francis Jones, Mr. and Mrs. George Kenyon, Mr. and Mrs. Ian M. Leslie, H. J. Whitfield Lewis, Arthur G. Ling, Mr. and Mrs. R. M. McNaught, Kenneth Macrea, Tom Mellor, Mr. and Mrs. L. Monks, Mr. and Mrs. F. J. M. Ormrod, Charles E. Pearson, E. Prestwich, Mr. and Mrs. G. R. Ricketts;

Emil C. Scherrer, Mr. and Mrs. R. Duncan Scott, Mr. and Mrs. H. T. Seward, Mr. and Mrs. J. R. G. Seward, Mr. and Mrs. E. T. Ashley Smith, Mr. and Mrs. Haydn W. Smith, Mr. and Mrs. F. R. Steele, Mr. and Mrs. Cecil Stewart, Mr. and Mrs. D. G. Thornely, W. J. F. Tillyard, Mr. and Mrs. Leonard G. Vincent, Lt. Col. and Mrs. Lesslie K. Watson, Mrs. and Mrs. Norman Westwood, Mr. and Mrs. F. Macfarlane Widdup, Mr. and Mrs. B. A. Williams, Mr. and Mrs. L. Hugh Wilson, Sir Hubert and Lady Worthington, Mr. and Mrs. T. S. S. Worthington, W. Cecil Young.

RICS

Election of Officers

THE FOLLOWING were elected officers of the Royal Institution of Chartered Surveyors for 1960-1961 on June 13:

President: Mr. J. D. Trustram Eve, chartered surveyor, of Westminster, London, SW1.

Senior Vice President: Mr. E. C. Strathon, chartered surveyor, of Mayfair, London, W1.

Vice Presidents: Messrs. G. H. Heywood, chartered surveyor, of Manchester; C. D. Pilcher, chartered surveyor, of Brighton; G. D. Walford, chartered quantity surveyor, of Liverpool and London.

Honorary Secretary: Mr. E. Harold Palmer, chartered quantity surveyor, of London.

QS Committee Election of Officers

THE FOLLOWING have been elected officers of the Quantity Surveyors' Committee of the Royal Institution of Chartered Surveyors for 1960-61:

Chairman: Mr. Cyril Sweett, chartered quantity surveyor, of London, WC1.

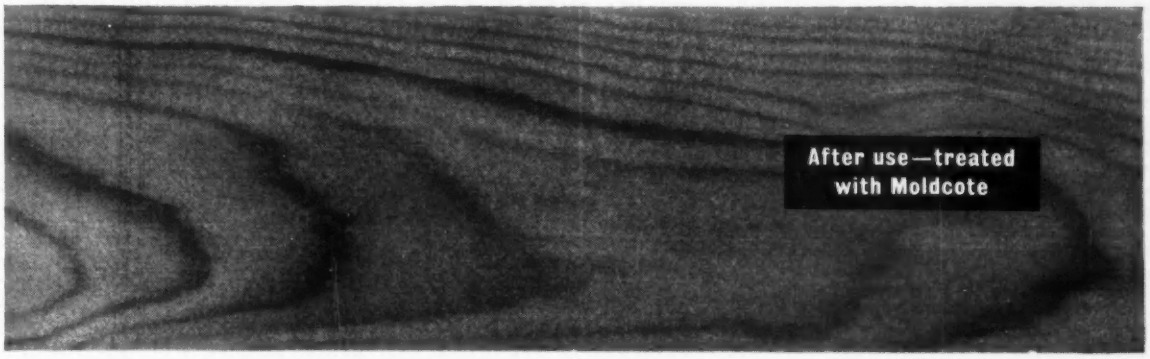
Vice-Chairman: Mr. J. G. Osborne, chartered quantity surveyor, of London and Birmingham.

Hon. Secretary: Mr. J. A. Burrell, chartered quantity surveyor, of London and Oxfordshire.

How temporary is shuttering? How permanent is formwork?

moldcote

The new development that has changed the face of concrete



Expensive timber formwork, complex moulds, the top-rate joinery necessary to ensure accuracy, are generally major items in costing cast or *in situ* concrete.

Moldcote is a surface hardener for the internal faces of formwork. It provides a smooth polished surface to the timber which greatly extends its working life.

It also ensures a fine, even face to the concrete which dispenses with the need for lengthy finishing operations.

Advantages of Moldcote

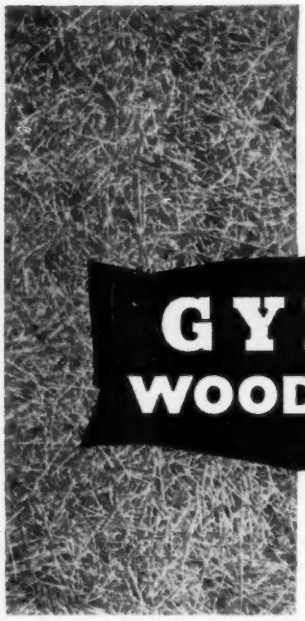
1. Improved quality of concrete face.
2. Reduced cost of rubbing up and making good.
3. Greatly increased life of timber face, which is entirely protected from water or oil penetration.
4. The face of the timber remains smooth even after repeated use.
5. Highly glazed surface means less release agent is needed.
6. Easily applied by spray or brush.
7. Will not crack or flake off.
8. No staining of the concrete.

SBD
STUART B. DICKENS LTD.

For further details of this brilliant new product which is already being used on numerous important projects, write to:

STUART B. DICKENS LTD.

Manor Way, Boreham Wood, Hertfordshire. Telephone: Elstree 2211



GYPKLITH
WOOD WOOL SLABS

... strong ... permanent ... unequalled for roofs, walls, linings and partitions wherever thermal insulation is vital

GYPROC products include:

GYPROC WALLBOARD
GYPROC PLANK
GYPROC LATH
GYPROC SARKING BOARD
GYPUNIT PANELS
GYPROC COVE
GYPROC PLASTERS

Paristone Undercoat Plasters
Haired, Unhaired and Metal Lathing grades
Paristone Wall Finishing Plaster
Gypstone Board Finishing Plaster
Cretestone Concrete Bonding Plaster
Gyproc Metropolitan Stucco
Gypklith Surface Filler
Gyplite Ready-Mixed Plasters

UNIT CONSTRUCTION PRODUCTS
Gypunit Partition System and Wall Linings
Gypstele Wall Linings
Gypstele Suspended Ceilings
Plaxstele Suspended Ceilings
Gyproc 2-inch Solid Partition

ACOUSTIC PRODUCTS
Gypklith Acoustic Tiles
Acoustic Gyproc
Gyproc Slotted Acoustic Tiles
Gyptone Acoustic Tiles
Acoustele Suspended Ceilings
Dekoosto Acoustic Plaster

THERMAL INSULATION PRODUCTS
Gyproc Insulating Wallboard and Lath
Gypklith Wood Wool Slabs
Zonalex Mineral Insulation

Literature is readily available on any or all of these products.

GYPKLITH wood wool slabs are light in weight and have great structural strength and durability. They have exceptional fire protective properties, being virtually incombustible, with Class I surfaces (B.S.476). As a thermal insulator GYPKLITH is excellent–a one inch slab of GYPKLITH is equivalent in thermal insulation to seventeen inches of dense concrete. These are only a few of the features worth studying. Write for leaflet B358B which gives you complete information.

GYPROC PRODUCTS LIMITED

Head Office: Singlewell Road, Gravesend, Kent. *Gravesend* 4251/4
Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. *Govan* 2241/3
Midland Office: 11 Musters Road, West Bridgford, Nottingham. *Nottingham* 82101
London Office: Ferguson House, 15/17 Marylebone Road, London, N.W.1. *Hunter* 4031/4
Contracts Dept.: Lacey Green, Aylesbury, Bucks. *Princes Risborough* 581/2

'GYPROC' *IS THE REGISTERED TRADE MARK OF GYPROC PRODUCTS LIMITED* GK.4.

London County Council

Completion of Royal Festival Hall

THE LONDON COUNTY COUNCIL hope shortly to submit proposals for the completion of the Royal Festival Hall on the South Bank. This was reported by the general purposes committee to the meeting of the Council held on June 21.

The report refers to a motion by Dr. David L. Kerr, on March 16 last, who asked the general purposes committee to consider and report on the desirability of the Council taking the initiative in promoting a Festival of Music and the Arts to be held in London in 1961, a decade after the Festival of Britain.

The committee think that it would in any case be impracticable to make the arrangements for such a festival in the time available. They think, nevertheless, that the occasion for a London Festival might well be provided by the completion in a few years' time of an important phase in the redevelopment of the South Bank, on which is focused a good deal of the Council's cultural interest. The Royal Festival Hall now consists essentially of a main auditorium and its ancillaries, completed barely in time for the Festival of Britain. They intend shortly to submit proposals for extensive works necessary for the worthy completion of the Royal Festival Hall as one of the finest concert halls in the world.

They envisage that the completion of the Royal Festival Hall, the provision of the proposed second concert hall and an exhibition gallery, together with the associated lay-out and road works will form part of a single scheme of development for the area, which, if the Council approve, can be completed by 1964. Other development on this part of the South Bank, notably the Shell building, will be completed by this time.

The committee propose to examine and report further on the possibility of the Council promoting a Festival of Music and the Arts in 1964, which would worthily mark the reopening of the completed Royal Festival Hall and the opening of the second concert hall and the exhibition gallery. They will consider enlisting the support of other developers on the South Bank.

Piccadilly Circus

THE TOWN PLANNING COMMITTEE have reported the decision of the Minister of Housing and Local Government to refuse permission for the proposed development of the Monico site following the recent public local inquiry.

The committee state that the Minister's decision clearly raises a number of important issues, both as regards the general redevelopment of the Circus and the individual application, to which they are giving urgent consideration. They will report further on these issues as soon as possible. Discussions with the Minister's officers on the possibility of preparing 'a comprehensive plan to which developers could be asked to conform' are proceeding.

Employment of Architects in Private Practice

IT IS PROPOSED to amend the standing orders of the Council so as to delegate to committees the authority to employ, where necessary, engineering and other consultants and architects in private practice to plan and supervise certain building or engineering projects or to advise on some special aspect of the work.

RFAC's Views on Brighton Schemes

Positive Planning Policy for Whole of Central Area Advocated

THE ROYAL FINE ART COMMISSION which was asked by Brighton Town Council to examine schemes for redeveloping an 11½ acre site on the seafront, has suggested that a final decision should not be made until a planned policy for the whole central area of Brighton has been settled.

Three schemes selected from a large number of applications had been submitted to the commission. The companies which submitted the schemes were Copthall Holdings Ltd., the Taylor Woodrow Group and the Bernard Sunley Investment Trust Ltd. All three included skyscraper blocks of flats and offices.

In a letter to the Brighton Town Clerk released for publication on June 15 the secretary to the commission, Mr. Godfrey Samuel, says: 'The commission notes with satisfaction your council's desire to secure a high standard of civic design for the redevelopment of this area in view of its prominent position in the town and of the fact that it may well set the pattern for further developments in the central area.

'The commission believes, however, that the council should go farther and should formulate a positive planning policy for the whole central area of Brighton before any final decision is taken on this proposal. Such a policy would include in broad outline the extent of redevelopment and of preservation, densities, and building heights as well as use zoning, traffic circulation and parking, and it should cover in detail at least the area south of Western-road between the two piers, within the framework of a more general or outline plan for the whole Brighton-Hove "conurbation," and the commission recognises that the collaboration of the East Sussex County Council or of the Hove Borough Council under its delegated powers would be necessary for this.

'If a more comprehensive study of the planning issues were to be undertaken by the corporation on the lines here suggested and bearing in mind that any large-scale redevelopment in a setting of outstanding architectural and historical interest raises very complex issues the commission, while recognising the excellent work done by the borough planning officer and his staff, feels that the possibility of engaging a consultant of high standing with special experience in this field ought to be seriously considered by the corporation.

'With regard to the particular area now under discussion the commission does not believe that any really satisfactory scheme for redevelopment can be devised which does not take into account the rest of the area bounded by West-street, King's-road, Cannon-place and Western-road.'

Holiday Camp Decision

Cabanas in preference to Caravans at Chichester

CARAVANS or cabanas? A two-day planning inquiry at Chichester in January (reported in 'The Builder' of March 25) was taken up with arguments as to which of the two are to be preferred in more or less static holiday camps, and cabanas have won.

The Minister of Housing and Local Government has allowed the appeal of the Links Caravan Club Ltd., of Selsey, West Sussex, against the refusal of Chichester Rural Council to grant planning permission for the building of 251 cabanas on their Little Spain 20-acre caravan site in place of the caravans already there.

The company, which already had a licence to build 45 cabanas, plus four chalets, may now build up to a total of 300 cabanas. Permission is for a period of 20 years.

At the inquiry, it was explained that the idea of the cabana (a type of Spanish-style chalet) was 'born in the mind' of Mr. J. F. Wickins, of the Redskin Caravan Camp, Bracklesham Bay, West Sussex, who was influenced by the belief that the caravan was now used almost entirely as a static holiday home by the sea.

'The Cabana Advantages'

It was argued that the cabana has many advantages over the caravan, among them sanitation, water supply, heating and lighting. They cost about £1,000, and, at Little Spain, would also have such amenities as a swimming pool, tennis courts, and a putting green. The site also adjoins the 9-hole Selsey Golf Course.

Chichester Rural Council claimed that, while caravans could be moved with ease and the land restored to its original use as a golf course or for agriculture, cabanas were of a more permanent nature. 'There is a great danger that, if this scheme is developed,' said Mr. J. G. Jefferson, the county planning officer, 'it will develop into a residential estate which could very quickly degenerate in appearance.'

Obituary

Ralph Wilson, FRIBA, RBA

WE REGRET to record the sudden death at Norwich of Mr. Ralph Wilson, FRIBA, RBA, of Brackley Lodge, Brackley, Northamptonshire.

Eastern Federation

President Confident of Continued Stability

CONFIDENCE in the future and satisfaction at the high level of building work at present available in the eastern counties were expressed by MR. D. M. CHASTON, FIOB, president of the Eastern Federation of Building Trades Employers, when he presented the Half Yearly Review to the Federation's summer meeting at Lowestoft on June 14.

'Last year,' said Mr. Chaston, 'was one of sound economic growth in which the building industry shared. Building activity and output seem likely to reach an even higher level in 1960. The feeling is widespread that the recent improvement in our economic position is soundly based and that the government, fully alive to the dangers of a further bout of inflation, are prepared to take firm and prompt measures to prevent it. It is natural that our industry should be preoccupied to some extent with the dangers of inflation since we are among the earliest and greatest sufferers when a policy of credit restraint is put into operation. The period of uncertainty which followed the Chancellor's budget warning on restraining measures was terminated by the announcement on hire purchase controls. The immediate prospect is now one of continuing stability with consequent benefit to business confidence.'

Commenting on prices, the president stated that the keen pricing of contract work which was a corollary to falling demand during the recent recession, is still evident. 'While it is obviously in the interests of the customer as well as the builder,' he continued, 'that a fair and reasonable price should be paid for building work, we as advocates of free enterprise must not seek to divorce the disadvantages from the advantages of the highly competitive system which is the natural consequence of the freedom we seek.

'In establishing a satisfactory level of prices for building work, contractors must give more thought to the future capital investment needs of their businesses and the adequacy of reserves for those commitments which will certainly face contractors in the era of change.'

Brick supplies gave cause for concern and Mr. Chaston stated that the shortage of 1959 was likely to be intensified in 1960 with demand outstripping supply. With lengthening delivery dates the prospects for the summer months were by no means bright. Dealing with the housing situation he spoke of the increasing participation by private enterprise in the high overall level of house production. The strong demand for home ownership remained relatively undeterred by rising prices due to increasing cost of building land and higher mortgage interest rates. The availability of land was a problem which the Federation was facing and the Minister of Housing and Local Government was apparently confident that sufficient land had been scheduled to meet the needs of an increasing population with a steadily rising standard of living.

In conclusion the president expressed satisfaction that the return to better times in the industry had resulted in improved apprenticeship recruitment figures but there was still plenty of scope for more boys to be recruited and trained.

Prize Scheme for Building Apprentices

THE POPULARITY and success of the scheme of apprenticeship awards of the Eastern Federation of Building Trades Employers will again result in the offer of a place to the best apprentice of the year at an Outward Bound School.

For this year's award a place has been reserved at the Aberdovey Sea School in September, 1961. In addition to this the Federation will continue with its Senior Apprentices' Week-end Course, with up to 30 free places to be allotted to those senior apprentices most likely to benefit.

There will in addition be one award of £15 and four awards of £10 to selected apprentices who undertake to proceed with their studies for the City and Guilds advanced craft certificate or the Ordinary National Certificate.

Apprentices must not have reached their nineteenth birthday by January 1, 1960, and must be bound under the National Joint Apprenticeship Scheme with a member of the Federation.

Selection will be on the basis of the City and Guilds Craft Certificate Examination results and the recommendation of the technical college principal and master, although in the case of the Outward Bound Award, apprentices on a National Certificate course will be considered.

The Operatives' Conference

Call for Nationalisation of Land and Building Materials

DELEGATES of unions representing 500,000 workers in the National Federation of Building Trades Operatives carried a resolution without dissent at Troon on June 16 in support of nationalisation in general and that of building, land and manufacture of building materials in particular. The resolution was moved by MR. L. MCGREE, who was speaking as a representative of the north-western regional council of the NFBTO.

Alarm was expressed by MR. E. S. TAYLOR, president of the Amalgamated Society of Woodworkers, at employers' proposals for a new system of graded skills among building craftsmen. His union, he said, would not tolerate the creation of a new kind of building operative with limited skill or qualified in more than one trade. If this kind of thing were encouraged, they would not go along with the federation, whose leaders had no mandate to discuss it with the employers.

MR. H. J. O. WEAVER, vice-president of the federation, said that nothing was settled yet and they could hardly stop employers or anyone else from holding an investigation to reappraise building skills.

The Minister of Works, LORD JOHN HOPE, also addressed the Conference.

'New Look' in Hospitals

Efficiency's Part in NHS Achievements

'THE WELCOME NEW LOOK' which is being given to the hospital building programme was referred to by the Minister of Health, MR. DEREK WALKER SMITH, QC, when he addressed the NALGO annual conference at Brighton on June 17.

'In our hospital building programme,' he said, 'we can measure the progress both in money terms and in actual building. By last year we provided £22m.; this year £25½m.; and next year it will be £31m. We have, in fact, over the last five years more than doubled the money available, and will continue our upward progression. Indeed, next year we expect to devote to hospital building about the same amount as in the whole of the first four years of the Health Service.'

The figures of new schemes showed an equally striking advance. By the beginning of this year there were 180 major schemes at various stages of building or planning, more than 30 of them being schemes of over £1m. Among the schemes were 8 new hospitals partly completed, 9 new hospitals started and 17 being planned.

Safer Oil Heaters

Compliance With BS

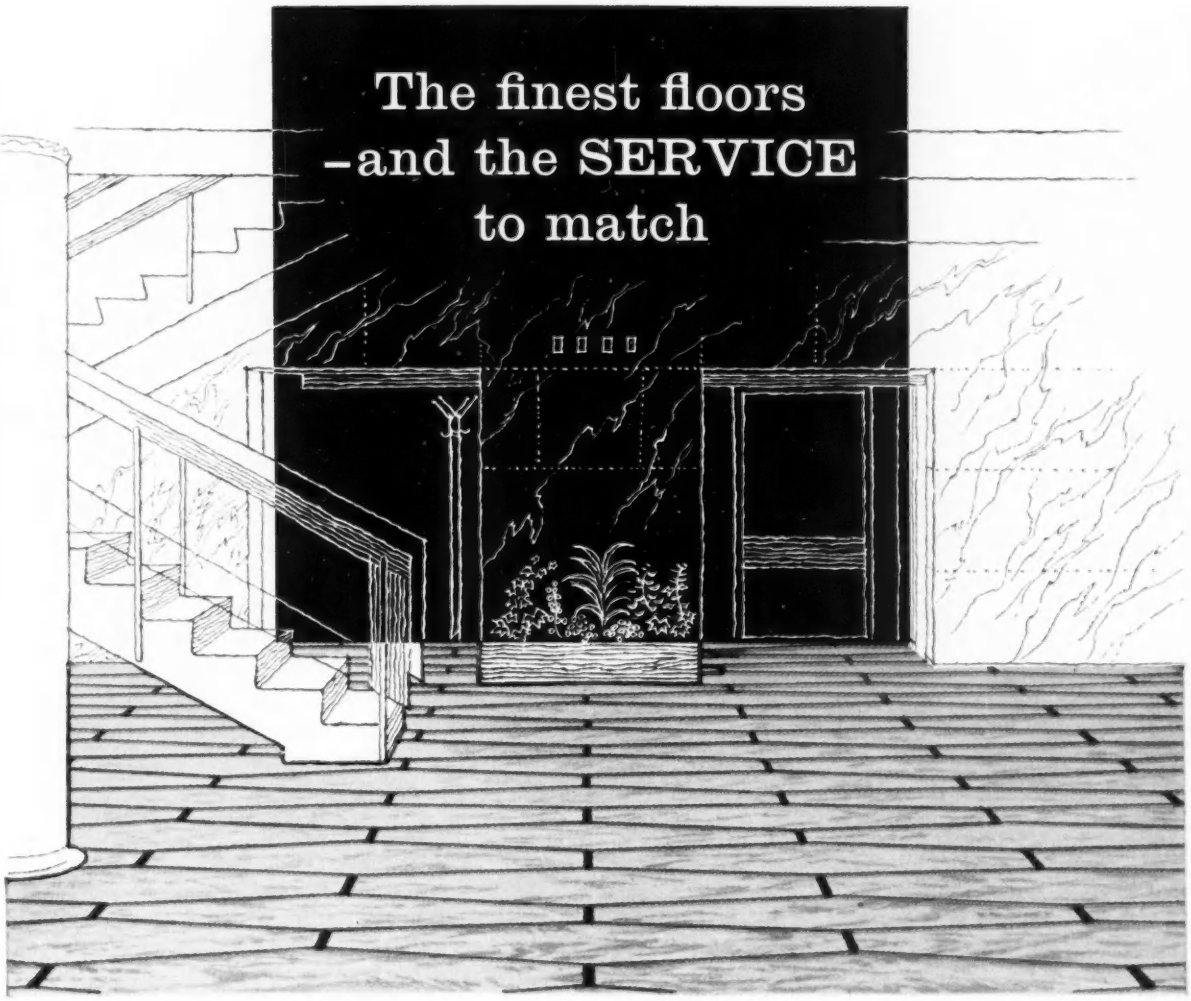
THE FIRST of the new, safer oil heaters made in accordance with British Standard 3300 are now coming off the production line. These new, safe heaters, which will soon be in the shops, carry the Kite-mark safety symbol of the British Standards Institution and the Oil Appliance Manufacturers' Association. The mark indicates that sample heaters have been put through a series of really tough tests.

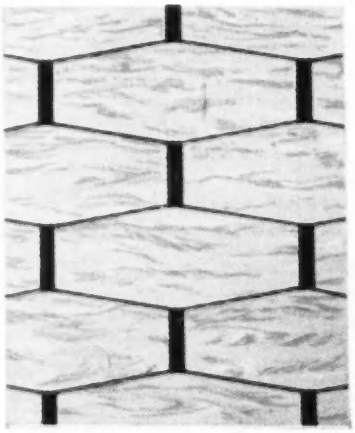
Up to the present time the heaters of six firms have been tested and found good enough to carry the Kite-mark. It is expected that the products of several other companies will also carry the mark soon. The firms already licensed are: Aladdin Industries, Ltd.; Valor Co., Ltd.; Herman Smith, Ltd.; J. Sankey and Son, Ltd.; Rippingills, Ltd.; John Harper and Co., Ltd.

Builder's Profits

THE FIGURE of £29½m. recorded in 'The Builder' of June 17 as being the total profit of the Taylor Woodrow Group for 1959, was stated in error. This figure was in fact the group's record turnover for the year 1959.

The finest floors –and the SERVICE to match





Rubber Flooring installed in the entrance hall of St. James's House, London, S.W.1

Semtex, manufacturers of a wide range of flooring materials, including Semastic Decorative Tiles, Semflex Tiles, Vinylex Tiles, Dunlop Rubber Flooring and Vertilex Decorative Wall Tiles, will employ their vast resources in taking welcome responsibility for your entire flooring operation. Twenty contracting branches throughout the country will advise readily on all flooring and pre-treatment problems and offer a highly-skilled laying service, providing, in addition, comprehensive facilities for design.

IMAGINATIVE MODERN FLOORS

Semtex Ltd

A DUNLOP COMPANY

SEMTEX LTD · 10 SEMTEX HOUSE · 19/20 BERNERS STREET · LONDON W.1 · TEL: LANGHAM 0401

CTH/60/SE/C14

The architect states the problem to the contractor and the specialist

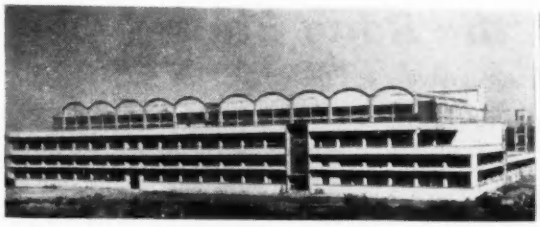
BISON floors, beams and concrete frame structures

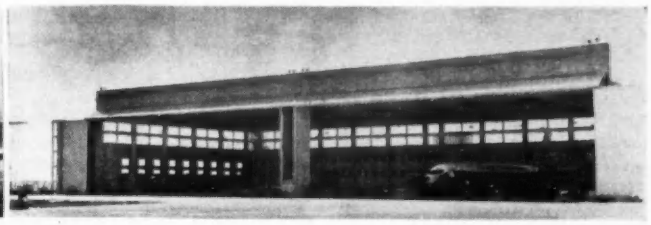
SPEED & STRENGTH

CONCRETE LIMITED are the largest structural precast concrete specialists in the world

CONCRETE (SOUTHERN) LIMITED Green Lane, Hounslow, Middlesex *Hounslow 2323* London Sales Office: 16 Northumberland Avenue, W.C.2 *Whitehall 5504*
CONCRETE (MIDLANDS) LIMITED Dovehouse Fields, Lichfield, Staffs. *Lichfield 3555* Birmingham Sales Office: Winchester House, 5 Victoria Square, Birmingham 2 *Midland 0331*
CONCRETE (NORTHERN) LIMITED Stourton, Leeds 10 *Leeds 73211* Manchester Sales Office: 40 King Street West, Manchester 3 *Blackfriars 5676*
CONCRETE (SCOTLAND) LIMITED Etna Road, Falkirk *Falkirk 2366* Glasgow Sales Office: Elmbank Street, Glasgow C.2 *City 3292*

60/4





A Prestressed Concrete Hangar at Bombay

New Buildings for Air India International

A PRESTRESSED CONCRETE HANGAR for Boeing jets has recently been completed at Bombay for Air India International. The hangar consists of two structurally separated units of prestressed concrete shell roof construction supported by reinforced concrete columns.

Each half of the hangar consists of five shells spanning 150 ft. supported at the rear by reinforced concrete columns at 14 ft. 10½ in. centres, and at the front over the doors by a prestressed concrete beam. The chord width of the shells is 29 ft. 7 in. and the thickness is 2½ in. The rib beams are 6 ft. 6 in. deep by 7 in. wide stressed with 8 No. Freyssinet cables of 12 No. 0.276 in. diameter wires. The front beam has a clear span of 160 ft., a depth of 20 ft. and is stressed with 27 No. cables each of 12 No. 0.276 in. diameter wires. These front beams were originally designed with a cambered top flange but the change to a level top was made to improve the appearance.

The hangar was designed for a 20 lb. per sq. ft. wind pressure and the reinforced concrete columns are designed to take the resulting moments together with those created by the shortening of the members when they were stressed. Because of the height, 50 ft., and resultant flexibility, the stresses imposed on the columns by prestressing the beams are not large.

The junction between the two halves of the shell roof construction is formed by a reinforced concrete slab fixed to the lower edge of the shell on one half of the hangar and resting on a projection on the edge of the next rib. Between the last edge rib and the side walls is another reinforced concrete slab carried by the edge rib of the shell and resting on the side wall columns. These slabs were kept separate from the edge ribs until after the latter had been prestressed.

The columns carrying the main front beams are 3 ft. 6 in. square and two separate columns are provided at the front centre of the hangar. The columns have reinforced concrete bases founded on hard murum, with a maximum pressure of 6 tons per sq. ft. Loading tests were made to prove the bearing capacity.

The rear and side walls of the hangar are framed in reinforced concrete with brick infilling panels and vertical glazing set in reinforced concrete glazing bars.

Each main front door is composed of five leaves 32 ft. 4 in. x 50 ft. 4 in. high, steel framed with corrugated sheet covering. The door leaves run on rails at the bottom and are guided at the top by tracks under the canopy attached to the face of the main beam.

The concrete mix was 1:2:4 with a water/cement ratio of between 0.45 and 0.47 giving cube strengths of over 4,000 p.s.i. at 7 days. The calculated stresses in a typical shell and the main beam are given in the accompanying table.

It will be noticed that the resultant stresses are all compressive and all lower than the maximum permitted stress of +1,250 psi.

The roof is covered with a combined waterproofing and solar reflector of two layers of aluminium foil and each shell is provided with 4 No. 5 in. diameter ventilators which also help in equalising pressure inside and outside the building.

The concrete surfaces exposed to the weather have been treated with silicone waterproofer to reduce discolouration and absorption of moisture.

A two-storey building at the rear of the hangar and single-storey buildings at each side provide shops and offices for the maintenance of the planes and their equipment.

Messrs. Gammon India Ltd., of Bombay, were responsible for the construction of the hangar, Messrs. Patkar for the Annexe Buildings and Messrs. Yahya & Co., for the steel framed hangar doors.

Mr. B. A. Swamirao, Works Engineer, was in charge of the project, for Air India International, and Messrs. Donovan Lee & Partners were the consulting engineers.

	Typical Shell		Centre Line of Main Beam	
	Top of Shell	Bottom of Shell	Top of Beam	Bottom of Beam
1. Dead weight	+ 890	− 1,530	+ 1,320	− 1,525
2. Prestress (initial)	− 655	+ 2,630	− 505	+ 2,130
3. Stress at prestress	+ 235	+ 1,100	+ 815	+ 605
4. Prestress after loss... ...	− 550	+ 2,220	− 430	+ 1,800
5. Full live load	+ 290	− 510	+ 160	− 185
6. Final stress (1 + 4 + 5)...	+ 630	+ 180	+ 1,050	+ 90

Failure to Enclose a Hoist

Builders Fined £100 for Breach of Safety Regulations

By a Legal Correspondent

AT THE MIDDLETON MAGISTRATES' COURT on April 11 a London firm were fined £100 in total for two contraventions of Regulation 66(I) of the Building (Safety Health and Welfare) Regulations 1948 for not sufficiently protecting the hoist way of a barrow hoist at all points at which persons were liable to be struck by moving parts of the hoist.

The firm, who were specialists in reinforced-concrete foundations for large buildings, were engaged in building a block of flats and shops and were carrying out a special type of concreting on the first floor. For this it was necessary to use the hoist. It was necessary to have a complete enclosure to a height of 6 ft. 6 in. to prevent access to the hoisting, but in this case wire-mesh fencing was provided on two sides but on one side there was no means of protection at all.

The foreman of the defendants had installed a fence alongside the building. When it was necessary to bring in a number of large shutters for hoisting, the foreman ordered the fence to be taken down having regard to the fact that on the open side there was difficulty in approaching with the shutters having regard to the position of the concrete mixer and the concrete bags. While the fences were down a workman employed by another firm walked under the hoist and was struck in the back and fell to the ground under the platform of the hoist.

The second offence occurred when the fences had been restored to position but the enclosure was not sufficient because there was not sufficient protection on the side where the concrete mixer was positioned.

Finding the Road Back

Vocational Training in Prison

By Our Special Correspondent

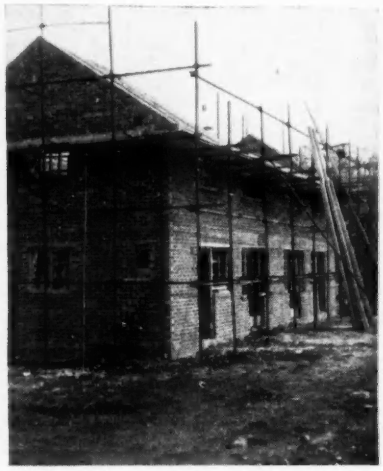
TOO OFTEN, IT IS SAID, the real punishment of a man serving a sentence for felony begins when he leaves prison. That this should be so offends against every instinct of justice, yet it may well be true, especially of the professional middle-class man who has slipped and who finds it near impossible to re-establish himself in his profession. For him it means a change to something quite different, something for which he is not equipped, something involving the use not of a pen but of tools. He, of course, is not the only kind which offers a problem to the after-care officer; there is also the man who never settled to a steady trade before finding himself in prison and who, if he is not to return to criminal ways, must somehow be equipped to hold his own on release.

Rehabilitation Problem

This problem of rehabilitation is one of the most anxious facing the Prison Commissioners who are solving it by the organisation in every suitable penal establishment of vocational training in appropriate trades. No trade offers better opportunities than the building crafts, not only because of the current demand for labour but, importantly, because there is virtue in the trades themselves as crafts which are visible, permanent and worthwhile.

Vocational training in painting and/or bricklaying is carried on in fourteen establishments for men and in thirteen Borstal institutions. Some have training for one of these trades, most for both, while a few, Leyhill 'open' prison among them, also offer instruction in carpentry and joinery and electrical fitting. About 1,000 men are trained each year.

A six-months' course is given to inmates, using much the same syllabus that the Ministry of Labour provide for ex-Service men leaving the Forces who wish to be trained in a trade. After four months the inmates undertake work for the Commissioners under the guidance of their instructor for the remaining period of the course. At the end of six months they return to the Vocational Training shop where they are given a final theory and practical examination, and are awarded one of the following qualifications: First Class Pass, Second Class Pass, Pass and Fair. The best of them are then employed by the Commissioners for the remainder of their sentences, or for as long a part as is practicable, in the trade for which they have qualified.



Left: Pair of houses under construction at Leyhill. Right: Detail of brickwork. Craft instructor: Mr. J. Slade

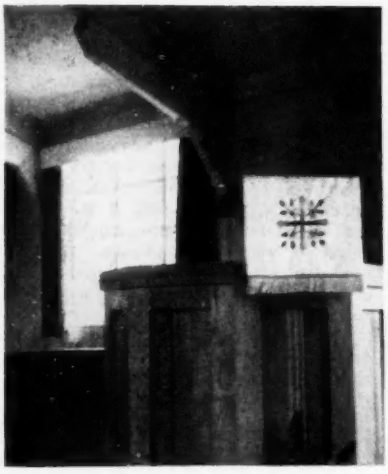
Training does not stop there. Those that gain First or Second class passes are given the chance to sit for outside examinations such as the City and Guilds, Union of Lancashire and Cheshire Institutes and the Union of Educational Institutes. The last two of these are examinations for first-, second- and third-year apprentices. The examinations have been taken by prisoners since 1951, and each year ever-increasing numbers sit for them as more courses are started in different establishments.

Training in an 'Open' Prison

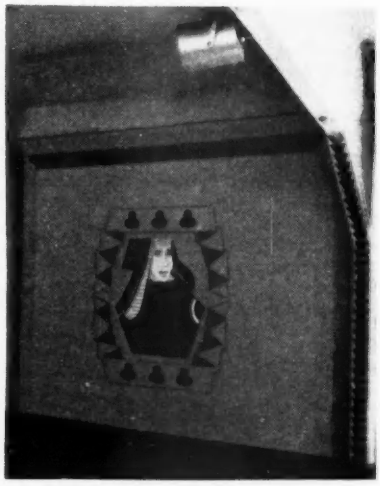
Your correspondent recently had the opportunity of seeing vocational training in action at one of HM Prisons. Leyhill is not the ordinary man's conception of a prison. It is a collection of standard MoW huts grouped round a fine country house deep in the Gloucestershire countryside. 'Open' means just that; the boundaries in some parts are not even fenced and any prisoner so determined could walk out; that so few in fact abscond is due to two main things: the men are nearly all first offenders who have made but one mistake (though in many cases a grave one) and they know that there is one inflexible rule, that an absconder never gets a second chance but will be returned to close confinement.

The visitor to Leyhill is likely to come away with two main impressions. First is the remarkably high quality of work achieved in the courses and in the permanent building executed by the more experienced men; the second is the devotion and remarkable inspirational quality of the trades instructors. Their work is encouraged and supported by the Governor and the Deputy Governors

Furniture in Leyhill chapel made by prisoners. Craft instructor: Mr. G. G. W. Brain



Decoration in officers' mess, Leyhill, painted by prisoners. Craft instructor: Mr. P. Burton



(there are two sides to this prison) and this is indeed needed, for the successful conduct of what is, in effect, a voluntary group within a penal institution presents its own problems.

Each course at a prison or Borstal commences with from 14-16 inmates; it may finish with an average of perhaps eight or ten, for those who are not considered good enough are weeded out early in the course. There is voluntary opting for these courses which are almost always over-subscribed, though some applicants put in purely to get a change from their previous work. Those that make the grade get a grounding in their craft which few technical colleges could better, for there is a degree of personal instruction which some colleges cannot provide. It is part of the process at Leyhill that selected inmates are allowed weekly to make the 12-mile journey to the nearest technical college where they supplement their practical work with theory.

The value of the scheme is demonstrated by the fact that men from Leyhill, while in prison, have won one silver medal and two bronze medals of the City and Guilds, and that over 70 per cent of all candidates have been successful in certificate courses. One inmate went on to take the final examination of the Institute of Quantity Surveyors; he now holds a high executive post with a firm of north country builders.

The side of vocational training in prisons is well in hand. Not all institutions, of course, can claim the success achieved by Leyhill; neither the potential nor the working conditions are always comparable. As a result, not all institutions can be equally successful in placing the men when their time is up, though welfare officers play fair with prospective employers by not recommending unsuitable material. Always, of course, the firm's representative approached (usually the managing director) is put in possession of the full facts. In spite of this, welfare officers often meet with difficulty in placing dicharged men, and this is something where senior executives could greatly help. This is no easy thing, taken as a whole, and there are disappointments; in any case, full supervision is most necessary if only because the ex-prisoner must be taught to increase his tempo of work to match the norm of the outside world.

Attitude of the Trades Unions

A further difficulty is the attitude of the trades unions to this form of labour, an attitude which is readily understandable when the unions' traditional standards are considered. To admit to a union men convicted of dishonesty or worse is, as Sir Richard Coppock says, 'an exceedingly delicate problem as far as the Operatives' federation is concerned, and the responsibility in connection with it must be left with the unions affiliated to the Federation. . . . No national policy can be laid down and the details of each individual person must be finally accepted by the affiliated union in its own capacity before the man concerned can be admitted to the union concerned.' It is good to hear that many local branches are most helpful in this matter, and this especially is true where the craft instructor, himself most often a union member, makes the contact rather than a member of the prison administrative staff.

This problem of re-settlement of ex-prisoners is very real, however, and is one in which the understanding help of more master builders and union officials is greatly needed. The Prison Commissioners would gladly hear from master builders who would be prepared to engage men on release and to assist in the work of rehabilitation. Without the opportunity for placement the fine work done in vocational training must go for nothing; then, indeed, does the released man begin his second, and more bitter term of punishment. It need not be so, if an industry which counted Christ among its members will play its part.

Book Review

Richard Neutra, 1950-60; Buildings and Projects

RICHARD NEUTRA, 1950-60. BUILDINGS AND PROJECTS. By W. Boesiger (Editions Girsberger, Zurich). Price 48s.

ARCHITECTS of the 'contemporary' school have always had a weakness for catch phrases and nicknames. Louis Sullivan was early in the field with his 'Form follows Function.' Frank Lloyd Wright, his pupil, then coined the phrase 'Organic Architecture' to describe his own particular brand of work. Gropius was not far behind with his 'Bauhaus Idea' and 'Total Architecture,' soon to be followed by Le Corbusier with his 'Machine for Living.'

Richard Neutra (once a pupil of Frank Lloyd Wright), to describe his own work, has invented the phrase 'Biological Architecture' because, according to the author of this book, 'it does not stem from aesthetical or practical considerations but rather from the harmonious working together of the whole through the psycho-biological feelings produced.' Perhaps so, but it sounds rather unconvincing.

Looking at the plans of Mr. Neutra's houses one finds all the old familiar accommodation denoted by LR, BR, K, B, den, carport, etc. The only apparent novelties are 'conversation corner' and 'rumpus room' which, of course, may have something to do with the owners' psycho-biological feelings, but they are certainly a practical consideration. Conversation and rumpus often occur simultaneously in an ordinary room, so there may be something in the idea of providing separate accommodation for these manifestations of the human spirit.

It is hard to believe, too, after turning over the pages of this book, that Mr. Neutra is so aloof to 'aesthetical considerations'; in fact, on page 107, there is a reference to the 'eye appeal' of architecture. It is a pity that this finely produced and stimulating book should be marred in some degree by affected writing.

Some 58 examples of Neutra's work are illustrated and described—all carried out or projected in the decade 1950-60. They are grouped in three sections: residences, 'humans in the group,' and urban design, and include many houses of varying size, schools, colleges, institutes and museums, hotels, churches, office and administration buildings, club and labour union buildings, auditoria, etc., together with some important works of city planning. All have the unmistakable Neutra impress upon them, notwithstanding that, with his old friend Mr. Robert E. Alexander, he is running a large office 'fit to accommodate up to a hundred,' with associates and engineers of all related professions, to whose valued work generous tribute is paid.

All the buildings are strongly rectilinear in character, with much use of large plain wall surfaces and generous areas of glass and the occasional introduction of subtly curved features by way of contrast, such as spiral staircases. Few are more than one storey in height and all are beautifully landscaped, mostly in settings of scenic magnificence. All have an air of expensiveness and aristocratic refinement.

The photography is brilliant, though it is sometimes difficult to judge scale owing to the absence of human figures, a strange omission in view of the author's insistence on Neutra's human approach to architecture. The text is in English, French and German. The book, beautifully printed and produced, is a handsome tribute to one of the most original architects of our time.

G. J. HOWLING.

Books Received

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s. 9d.; over 10s., 1s. 6d.) should accompany the order.*

SIMPLIFIED DESIGN OF REINFORCED CONCRETE. By Harry Parker. (London: Chapman & Hall.). Price 52s.

DECORATIVE CAST IRONWORK IN GREAT BRITAIN. By Raymond Lister. (London: G. Bell & Sons Ltd.). Price 35s.

THEORY AND DESIGN IN THE FIRST MACHINE AGE. By Reyner Banham. (London: Architectural Press). Price 45s.

A SYMPOSIUM ON ALUMINIUM IN BUILDING. (London: Aluminium Development Association). Price 50s.

SHOPPING TOWNS IN THE USA. By Victor Gruen and Larry Smith. (London: Chapman & Hall.) Price 108s.

Town Planning Institute

Spring Meeting at Newcastle-upon-Tyne

THE TOWN PLANNING INSTITUTE held its Annual Spring Meeting at Newcastle-upon-Tyne on May 26 and 27, when papers were read on 'The Next Review of Development Plans,' by Mr. John R. James, OBE, BA, and on 'Development Problems of a Regional Capital,' by Mr. T. D. Smith. From these we take the following extracts:

The Next Review of Development Plans

IN THE COURSE of his paper on this subject, Mr. James said: It is now ten years since the first development plans, prepared under the 1947 Act, came before the Minister for his approval. However critical one may be of much of the detail in these first plans, their underlying assumptions, their partial failure in the event to deal with the issues of overspill, redevelopment and traffic congestion, their lack of precision in guiding and controlling building by public and private enterprise, and their professional mystique which is clearly not understood by the public, they nevertheless represent a considerable achievement which is the envy of all countries concerned with town and country planning. The published reports of survey are a mine of information on the social needs, economic status and physical characteristics of every part of the country and of the chief towns in particular. Their proposals are generally thoughtful and comprehensive and they have taken us fairly successfully through a period of great social and technical change by affording a necessary framework for the exercise of development control.

Public understanding.—A few words need to be said on the form the next review should take. It has been the general intention of my department to simplify wherever possible the procedure of preparing, presenting and operating development plans, no easy task with such a complicated subject where so many interests are involved. Behind this intention lies the principle of helping the general public to understand what a plan really is, enabling the average person to 'find his way' about a plan and to see for himself what effect new proposals may have on his locality, perhaps on his own property. Statutory plans for submission to the Minister have to be precise documents cast in a legal mould, and the tendency has been for them to be prepared in such a way as to be comprehensible to professional persons but not always to the lay public. There is little we can do to change the rigid form of the plan itself, but the written matter that forms part of it (the Analysis and Written Statement) should be plain to everyone and should as far as possible clarify proposals that are difficult to appreciate from the town or county map. The recent regulations (Statutory Instrument 1581 of 1959) go some way to this end, for they deal, among other things, with the transfer of certain information from maps to the Written Statement, as well as introducing new inset maps to give more precision to parts of the county map. Despite improvements of this kind in the statutory presentation of plans, I believe that the best way of making plans meaningful to the public is by providing non-statutory texts in simple descriptive language, by arranging exhibitions with models, drawings and photographs, and by promoting public discussions on the proposals, both before and after the formal submission.

Consultation with various representative bodies in the early stages of the review work might frequently avoid objections being raised to the new proposals. Many planning authorities are co-operative in this respect, but I believe a lot more may be achieved by obtaining active and formative proposals from those bodies, the CPRE, for example, and others interested in buildings of historic and architectural value, than by awaiting their objections to the proposals at the formal stage.

The Written Statement.—Experience of development control has shown the need for strengthening the Written Statement. In the early plans too much was left to day-to-day decisions in the so-called 'white areas' of County Maps; we can see now that Circular 97 was probably too cautious in delimiting the scope of the Statement. Since that time delegation has gone much further, the Franks Committee has reported, and the pressures of development have been more fully revealed. The County Plan should give clear guidance both to those who seek to develop land and to district authorities who exercise control; and this can be done by making more effective use of the Written Statement. The true value of a 'consents and refusals' map is that it will enable a county authority to see how far the cumulative effect over the years of small *ad hoc* decisions is in line with or is departing from stated policy.

Indication of Changes

The amendment map.—The form the new proposals should take (in the amendment map) will largely depend on the number of changes proposed. Where these are relatively few the best method may be to adopt the 'box system,' which not only pinpoints the location of the new proposals but shows clearly the intended new use for the land. In cases where there is an accumulation of many changes since the first submission (or last review) and new proposals are numerous too, then it may be more sensible to redraw the whole map. One factor that is relevant to the choice concerns the scope of the public inquiry on the plan. Redrawing the map requires the whole area to be considered at the inquiry. It also makes it difficult for proposed changes to be identified readily. It is essential that a key map, indicating the new proposals, shall be placed alongside the statutory map to overcome this difficulty.

It is likely that the Ministry will issue further circulars or memoranda on several of the subjects I have touched upon. Some of those at present occupying our thoughts include the siting of houses in the countryside, analysis of planning applications and development, reproduction of amendments to plans, report of survey and analysis to accompany reviews, and the content of written statements.

Development Problems of a Regional Capital

HAVING referred to the proposed 'Tyneside of To-morrow' the exhibition of industry, art, culture and commerce to be held in Newcastle in 1961, MR. T. D. SMITH, in his paper on the above subject, said redevelopment, to be successful, must ensure that broad public support must be forthcoming right from its commencement. I believe, he said, that the local authority must secure from existing business organisations—including the largest and the smallest—that degree of support which can only be obtained if they are confident that they can depend on the local authority to protect their interests right from the commencement of redevelopment, and that the activities of the city will result in their greater prosperity, and not in the loss of their livelihood. The developers, I believe, must be a co-ordinated team able to work together with each other and with the local authority. This is necessary in order that the requirements of the city, some of which would not be considered to be immediately profitable, would nevertheless become part of the redevelopment pattern. It would ensure that the sculptor and the landscape architect were accepted as part of the development pattern.

It is not sufficient for the local authority to be prepared to accept any architect whom the developer may wish to impose upon the city. It is surely the wrong approach when a city which takes so much care to ensure that its public buildings are of the highest standard and the best design should not show equal concern when it is considering the redevelopment of large central areas. It is necessary, therefore, that the architects employed by the developers should be only those of the highest national and local repute and that the developers must be prepared to co-operate with the local authority and accept the apparent restrictions of control in order to ensure complete and satisfactory fulfilment of the architectural possibilities.

The role of the regional capital would be to establish the broad principles within which each developer would be expected to co-operate, and at the same time would be the initiator and co-ordinator of a tremendous team effort which alone could ensure the success of this kind of planning operation.

TRACTOR SHOVELS

The tractor shovel with its very wide range of applications is essential to most phases of excavation, loading and landfill operations. Its versatility makes it essential to the Public Works engineer and contractor, but the problem of availability must always arise; this can be solved by plant hire.

Hills Plant Limited offer for hire a complete range of up-to-date earthmoving and associated machinery, including tractor shovels, motor graders from 8,000 to 22,000 lbs., dumpers, concrete mixers, compressors, pumps, vibrating rollers, diesel piling hammers and concrete breaking equipment.

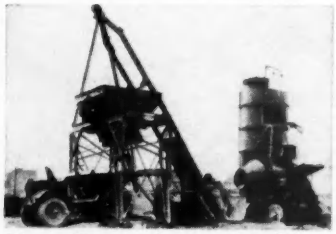
Hills PLANT LTD

12 BURLEIGH STREET, STRAND, LONDON, W.C.2.

Telephone: TEMPLE BAR 0321 (5 lines)

where else can you **HIRE**

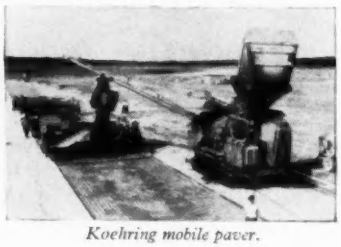
Electric, self-propelled derricks, extended jib lengths up to 135-ft.



Elstree Elevators for use with Mixers, 40 cu. ft. and 80 cu. ft. Discharge Hoppers.

Blaw Knox PF. 90. Paver Finisher.

Euclid Rear Dump Trucks, 9.7 cu. yd. capacity.



Koehring mobile paver.

where else but from **elstree**

ring **elstree 3261**

ELSTREE ENGINEERING SERVICES LTD., Chester Road, Boreham Wood, Hertfordshire. A LAING COMPANY

Town Planning Decisions

Development at Ham Common Refused on Appeal

IN NOVEMBER, last, Mr. T. C. Smith, of Ham Common Investments Ltd., appealed against the refusal of Kingston and Richmond councils to give permission for the erection of 34 flats and 16 garages. The site at Ellaston, Church-road, Ham Common, is partly in Kingston and partly in Richmond.

The Minister has dismissed the appeal saying that the inspector who conducted the inquiry had observed that this attractive part of Ham Common possessed many features which well merited the special attention given to it by the councils concerned. He considers the planning policy for the fringe area of the common is clear cut and consistent, in spite of isolated pieces of flat development permitted on the west of Upper Ham-road, where circumstances and conditions were different.

From a planning point of view, the Minister says, the present proposal has little merit and it would overdevelop the site and seriously injure the amenities of the area and in particular of the adjoining houses. These demerits could not, in his opinion, be overcome by good design of elevations, or by careful landscaping of gardens and they would exist however well the site were screened from the view of the public.

The two councils contended at the inquiry that the proposed density was too high and that the flats would not fit in either with the modern detached houses of Parkleys or with the larger ones in Church-road. Many residents objected to the scheme.

Minister Allows Public House on Residential Estate

THE QUESTION whether the introduction of a public house into a residential estate would be detrimental to the amenities arose during the course of a public inquiry held in December of last year into an appeal by Wolverhampton and Dudley Breweries, Ltd., against the refusal of Walsall Town Council to permit them to build licensed premises on a half-acre site in Fishley-lane, Bloxwich.

In allowing the appeal, the Minister has rejected the views of the local planning authority and the recommendation of his Inspector.

It was stated at the inquiry that permission had been refused on the grounds that the land was zoned for residential development and that the site would form an integral part of the future neighbourhood centre.

On behalf of the appellants it was said that the Council was trying to dictate to breweries where sites should be and so usurp the powers of the licensing magistrates.

The Inspector recommended that the appeal should be dismissed. The public house, he said, would be an isolated building and people leaving it late at night would naturally cause a certain amount of noise, which might be disturbing to the quietness normally expected in a solely residential area.

In over-ruling this recommendation, and allowing the appeal, the Minister notes the Council's view that the amenities of neighbouring residents would be adversely affected by the appellants' proposal, but it would seem, he says, that this view could not have been related to the residents opposite the appeal site, for in their lay-out of the Lower Farm Estate the Council had themselves sited the proposed public house opposite dwellings. Thus it would seem that the Council were mainly concerned with the amenities of any houses that might be built on the east side of Fishley-lane.

It seemed to the Minister that the development of this half-acre site for licensed premises need not prevent the satisfactory development of the adjoining land for residential purposes, even if no other non-residential development took place around the site.

Minister Allows Bungalow at Rear of Epsom House

THE PROPOSED erection by Mr. D. F. Denniss of a bungalow on land at the rear of 1, Burgh Heath-road, Epsom, has been approved by the Minister of Housing and Local Government, on appeal.

The appeal site, with a frontage of 65 ft. to Rosebery-avenue and a depth of 75 ft. forms part of the back garden of one of a group of houses fronting Burgh Heath-road and Church-street in one of the older residential areas.

The appellant, at an inquiry into his appeal, said he had no intention of converting his house into flats [as was envisaged by the planning authority] but was unable to maintain a large garden and wanted to sell part of it for the erection of a bungalow. The plot was screened from his house by a line of shrubs, and a dwelling could be built there without detriment to adjoining properties. The proposed bungalow would be of an attractive design and the development would be in conformity with the general character of the district, where the properties were smaller than in the area of spacious development south and west of Burgh Heath-road.

He contended that the council's refusal of planning permission was inconsistent with other decisions made by the council whereby they had permitted houses to be built in similar circumstances on backland and sub-divided plots.

It was pointed out on behalf of the planning authority that in other cases where the development of severed land had been allowed, the plots were considerably larger than the appeal site.

The Inspector, in his report to the Minister, observed that the density of building in the block of development in which the appeal site lay was certainly higher than that of the general surroundings. While he did not think that the occupiers of adjacent properties would suffer much loss of privacy by the proposed development, he was of the opinion that the severance would result in a size of plot and of building so small as to be out of keeping with the surrounding property. The development, if approved, might well lead to similar applications which could not consistently be refused. The existing garden of 1 Burgh Heath-road was not unduly large for the class of property in the area, and the appellant's inability to maintain the garden was an insufficient reason for allowing development which would be detrimental to the general character of the district. He recommended that the appeal be dismissed.

The Minister, in the course of his decision, notes that there are two properties in this island block which are smaller than the appeal site and one of comparable size, and that Rosebery-avenue is a street of full by-law width. He appreciates the Council's concern to maintain the character of the area, but in his opinion development on the Rosebery-avenue frontage would be in keeping with residential development immediately to the north and would not be overlooked by the lower density development to the south. Accordingly, he has decided to allow the appeal.

House Unsuitable for Conversion into Flats

THE MINISTER OF HOUSING has dismissed the appeal of Mr. P. D. Collins against the refusal of Kingston Town Council to permit him to convert 26 Woodbines-avenue, Kingston, into four flats. At a planning inquiry held in January, Mr. Collins told the Ministry inspector that he had already spent over £500 in converting and decorating the premises before the council told him to stop.

The council contended that Woodbines-avenue was a very convenient short cut for motorists wishing to avoid the town centre, and any scheme which would tend to increase parking in the road was not favoured.

In dismissing the appeal the Minister stated that he accepted the recommendations of his inspector, who considered the house was unsuitable for conversion because the flats would be too small. Such intensive use would create an undesirable condition by lowering the standard of accommodation compared with adjoining properties. It was likely that there would be an increase in noise and movement to and from the house, and possibly an increase in kerbside parking and traffic congestion which might lower the value of properties in Woodbines-avenue.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0

Other colours according to colour.

In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.

White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)

Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

HOLLOW CLAY PARTITION BLOCKS (Keyed)

Minimum lorry loads

			£	s.	d.
*2½ in.	140 yds.	per yd. sup.		4	5
BUILDING BLOCKS (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	5
*4 in. (6 cavity)	90 yds.	,,		6	10
6 in. (8½ in. × 5½ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

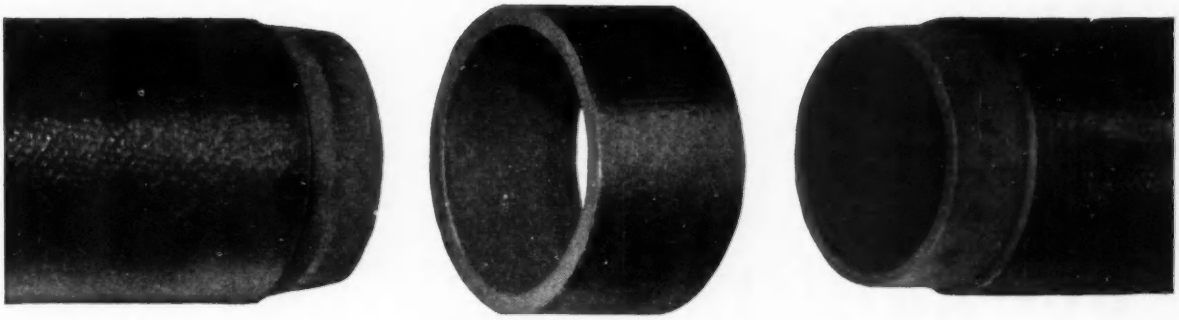
CLINKER CONCRETE					
2 in.	100 yds.	per yd. sup.		3	9
2½ in.	85 yds.	,,		4	4
3 in.	75 yds.	,,		5	3
4 in.	55 yds.	,,		6	5
CRANHAM TERRA COTTA					
2 in.		,,		6	9
2½ in.		,,		7	9
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
MOLER PARTITION BLOCKS					
2 in.	150 yds.	,,		11	3
2½ in.	120 yds.	,,		14	0
3 in.	100 yds.	,,		15	0
4 in.	90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE					
2 in.	100 yds.	per yd. sup.		5	4
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS					
2½ in.	144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8

FLOOR BLOCKS AND FILLER TILES

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:

3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ¾ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0

FLEXPIPE'S EXTRA 2ft LENGTH



CUTS COSTS!

Longer lengths cut laying time

Flexpipe—the latest development in pitch-fibre piping—comes in 10 ft. lengths instead of 8 ft. This means that any length of piping can be laid as much as 20% faster with Flexpipe than with any other pitch-fibre pipe—an important saving in labour costs.

Less jointing cuts material costs

This extra length also reduces the number of joints needed on any job—a valuable saving in jointing materials.

Flexpipe is available NOW in both 4" and 6" internal diameters—and costs no more than other pitch-fibre pipes.

AND REMEMBER FLEXPIPE HAS THESE OTHER ADVANTAGES

(a) Much easier to transport, stack, and handle—one man can carry three or four Flexpipes at a time without any sense of strain. If he drops them — they're unbreakable! (b) No jointing compound required: Flexpipes are joined together with a collar that can be simply knocked on with a hammer and a block of wood. The joint is then completely sealed. (c) Flexpipe cannot crack under earth movements and is corrosion-proof. (d) It can be sawn to any length as easily as wood.

LIKE TO KNOW MORE? *Send for Flexpipe literature or let us put our representative in touch with you. Or both.*

Flexpipe

PITCH-FIBRE PIPES

FLEXPIPE LIMITED, Bowater House, Knightsbridge, London, S.W.1. Tel: KNIghtsbridge 7070. Now a member of the Bowater Organisation

CRC1

The £.s.d. of OSAL★
—*Waterproofing Cement Renderings*

It's not the cost per gallon but the cost per yard that counts

On this basis Tricosal, which waterproofs a square yard of 3/1 sand and cement renderings ¾ in. thick for only 3d., is the most economical as well as the most efficient additive. It waterproofs integrally and, being a liquid, mixes with the guaging fluid and is evenly distributed throughout the mix.

INTEGRAL CEMENT
TRICOSAL
HARDENER-PROOFER

Tricosal is now available in non-returnable containers.

For 30 years or more Tricosal has been specified by leading Architects not only for waterproofing but for hardening cement and concrete and increasing their resistance to oils and acids. Send for Information Leaflet No. 1.

★ *OSAL is the generic name for the products of A. A. Byrd & Co. Ltd.—" Florosal " for Surface Hardening and protection of Concrete, Stone and Cement—" Neocosal " for Surface Waterproofing of Brick, Concrete and Stone, and " Tricosal ". Literature on each individual product is available from*

A. A. BYRD & CO. LTD. (Dept B2) 210 TERMINAL HOUSE, GROSVENOR GARDENS, LONDON, S.W.1.
Phone : SLOane 5236. Grams : Byrdicom, Wesphone, London. Works : Basingstoke, Hants.

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	−10%	+5%	+12½%
BSS Best Quality...	+10% −10%	+10% +5%	+10% +12½%
Tested Quality ...	+37½% −10%	+37½% +5%	+37½% +2½%
BSS Tested Quality	+47½% −10%	+47½% +5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

		Ex	per	£	s.	d.
Softwood						
Joinery quality		Wharf	standard	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots 1–11)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2¼
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. }	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. }	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
½ in. diam.	per ton extra	8	12	6
9/16 in. do.	,,	6	12	6
⅝ in. do.	,,	4	12	6
⅞ in. do.	,,	3	2	6
⅞ in. do.	,,	1	10	0
⅞ in. and ¾ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings		Malleable Fittings
Light	−39½%	−41%	Light	−26½%	Malleable List
Medium	−35½%	−37%	Heavy	−22½%	−18½% +40%
Heavy	−27½%	−29¼%			
Black—					
Light	−50%	−51½%	Light	−32½%	Malleable List
Medium	−46%	−47½%	Heavy	−28¾%	−18½%
Heavy	−38¼%	−40%			

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. GUTTERS

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. RAIN-WATER PIPES

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. COATED SOIL PIPE

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. COATED DRAIN PIPES

In 9-fts.:	cwt. qt. lb.	Per yd.	Bends	Branches
4 in.	1 1 17	35/3	23/9	42/–
6 in.	2 0 1	51/7	63/9	101/–

ASBESTOS RAIN-WATER PIPES AND FITTINGS

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	,,	3/7	4/8	5/2	7/3
do. 6 in do.	,,	3/10	5/2	5/10	7/10

ASBESTOS O.G. GUTTERS AND FITTINGS

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

ASBESTOS HALF-ROUND GUTTERS AND FITTINGS

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	,,	3 1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31⅔ in. × 20 SWG	,,	1 19 3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31⅔ in. × 20 SWG	,,	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	,,	2 7½
Extruded section BS 1476 HE10WP simple angle	,,	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	,,	6 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,	4 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/–	—	—	—	—
Toilet bib cocks for iron	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s. d.
Plumbers'	1 cwt. lots	320/–	14 lb. lots per lb. 3 7
Tinmen's	,, ,,	404/–	,, ,, ,, 4 5
Blow pipe	,, ,,	407/–	,, ,, ,, 4 6

COPPER TUBES AND SHEETS

Copper tubes BSS 659/1944 on the basic price of 29½d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
½ in. × 19 gauge	15½	Total per lb.	44¾	Approx. per ft.	12
¾ in. × 19 ,,	13¾	,, ,,	43	,, ,,	16¾
1 in. × 18 ,,	12¼	,, ,,	41⅛	,, ,,	25¾
1¼ in. × 18 ,,	11⅛	,, ,,	40⅞	,, ,,	31
1½ in. × 18 ,,	11¾	,, ,,	40⅝	,, ,,	37½
2 in. × 17 ,,	13¼	,, ,,	42½	,, ,,	59½

Small Quantity extras :—
10 cwts. to 5 cwts. ... plus ½d. per lb.
5 cwts. to 2 cwts. ... ,, 1d. ,,
2 cwts. to 1 cwt. ... ,, 2d. ,,

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	282 0 0

ZINC

		£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7 15 3
,, ,, 12 gauge (23 SWG), ,, ,, ,,	,,	7 14 9
,, ,, 14 gauge (21 SWG), ,, ,, ,,	,,	7 13 6

BRASS TUBES

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2 0¼

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	112 10 0
,, Water Pipe, in coils	,,	114 15 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	116 5 0
,, ,, ,, over 4 in. dia.	,,	118 5 0
,, Gas or Untinned Compo pipe	,,	116 5 0

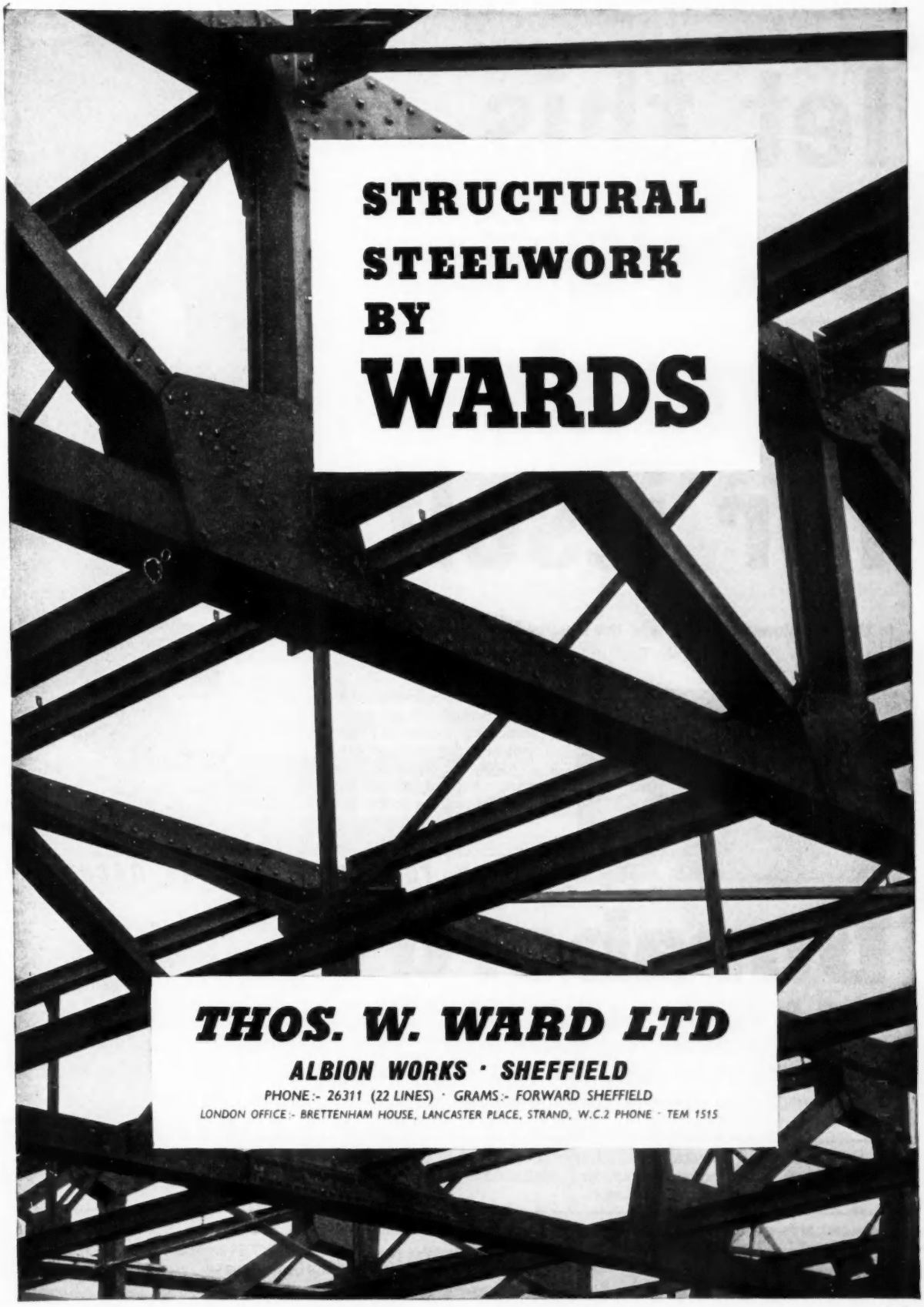
5 cwt. lots and over less 6d. per cwt. off basic prices.
Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	,,	6 0

Smaller quantities than 1 cwt. priced specially.
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.
Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	,,	8 14 0
Sirapite Coarse BSS 1191 Class C do.	,,	8 15 9
do. Fine do. do. do.	,,	9 3 3
do. Browning BSS 1191 Class B do.	,,	8 15 9
do. Board Finish do. do.	,,	8 15 9
Blue Lias Lime, in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey), in 6-ton loads	,,	5 10 0
do. (White) do.	,,	6 0 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement, in 1-ton loads	,,	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads	,,	11 14 0
Granite Chips, in 6-ton loads	,,	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	,,	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 9
1,200 yds.	,,	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,	2 6½
1,200 yds.	,,	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	3 0

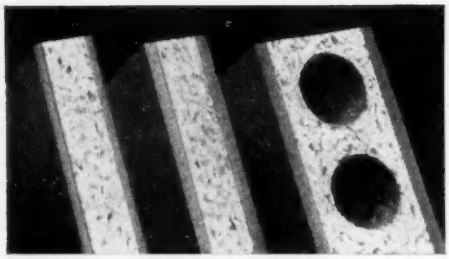

STRUCTURAL
STEELWORK
BY
WARDS
THOS. W. WARD LTD
ALBION WORKS · SHEFFIELD
PHONE:- 26311 (22 LINES) · GRAMS:- FORWARD SHEFFIELD
LONDON OFFICE:- BRETTENHAM HOUSE, LANCASTER PLACE, STRAND, W.C.2 PHONE · TEM 1515

CS.25

let this board speak for itself..

In three thicknesses 1⅝", ¾" and the popular ⅝"

in 8 ft. x 4 ft. panels



This COMPLETE constructional board is ready for use and immediate decoration. Faced with high density hardboard or hardwood veneers on both sides, it's the answer to so many fabrication problems.

READY TO USE—READY TO DECORATE

Durabord

WOOD CHIPBOARD

Use 'Durabord' and cut building costs—'Durabord' is truly unique—having an EXTRUDED wood chipboard core it provides a tough rigid 'sandwich' of exceptionally stable qualities. Used horizontally or vertically, 'DURABORD' requires little support, thus making it suitable for so many uses including partitioning, kitchen cabinet doors, shelving, window boards, panelling, ceiling trapdoors, etc., etc.

'MELABORD' This admirable Melamine faced board in ⅛" thicknesses is also available in ⅝", ¾" and 1⅝" thicknesses with 'Durabord' Chipboard construction. A wide variety of wood grains and patterns to delight the eye of your prospective customers.

MERCHANTS EVERYWHERE STOCK 'DURABORD' FOR YOUR IMMEDIATE NEEDS

Manufactured by: **F. HILLS & SONS LTD.,** NORTON ROAD, STOCKTON-ON-TEES. Telephone: 67141

London Office: WINDSOR HOUSE, KINGSWAY, LONDON, W.C.2. Telephone: CHAncery 9251

Telex in operation at both offices

Hills

P4602

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
7/32 in. Rolled and Rough Cast	,,	1	5
½ in. do. do.	,,	1	5¾
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8¾
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7¼ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅛ in. ...	,,	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅛ in. ...	,,	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ...	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ...	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	7	6
P.B.3 Broad reeded	,,	9	0
P.B.32 Cross reeded	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,, ...	2,000		8¾
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
¼ in. Rolled Plate	1,000		10½
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/32 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	•
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 1211

Space saving insulation with

THERMALITE

Loadbearing insulating building blocks

1 In these single storey houses at Crowthorne in Berkshire, 3″ loadbearing Thermalite Blocks are being used for the internal partition walls. They will provide a high degree of *extra* insulation *plus* an overall saving of internal space of approximately 12½ cubic feet.

Properties of Thermalite.

1. Dry density 50 lb./ft.³
2. Compressive strength to BS:2028 type A.
3. Moisture movement/drying shrinkage to BS:2028 type B.
4. Thermal conductivity (k) 1.4 B.T.U.'s, etc.
5. Nominal face size 18″ x 9″ or 9½″, actual sizes 17½″ x 8½″ or 9 1/16″ x 2½″, 3″, 4″, 5″, 6″ and 8½″ (tolerance to BS:2028).
6. Fire resistance 4″ loadbearing plastered hot face—2 hour grade. Fire resistance 4″ non-loadbearing unplastered—4 hour grade.

A LAING COMPANY

2 The photograph shows the neat returns to the reveals, typical of Thermalite construction. No special Corners or Closers are necessary; Thermalite Blocks are readily and accurately sawn. Note how easily the hot air ducting has been accommodated.

3 Thermalite is particularly suited to dry construction. Direct reliable fixing without need for plugs further reduces the cost of this economic construction method. Note, too, that the cable channelling is spiked directly to the Thermalite wall for speed and simplicity.

For further information and samples apply to:

THERMALITE YTONG LIMITED

Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.
Telephone: Coleshill 2081.

M

By appointment to
HER MAJESTY THE QUEEN
The Marley Tile Company Limited
Suppliers of floor tiles

'Bel canto' in bathrooms...

...harmony too, all over the house

MARLEY
tiles

Marley tiles displayed
Floor Tiles:
Marley de luxe–Yellow
Marleyflex–Imperial Red
Marley Terrazo–Blue
Marleyflex Broadloom–Lovat
Marleyflex–Dolphin Blue
Wall Tiles:
Seagull and Lime

Marley Sevenoaks Kent Sevenoaks 55255
London Showrooms: 251 Tottenham Court Road W1

TECHNICAL REVIEW

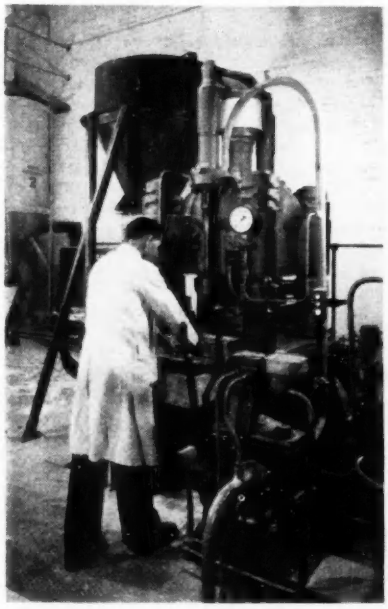
This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 140 of this issue. The form can be used for more than one inquiry.

1. Floor Tiles

A new six-inch square fully vitreous unglazed FLOOR TILE, of a type which in appearance and character has previously only been produced on the Continent, is now being made in this country. It is available in any one of twelve flecked and marbled colours and has exceptional toughness and durability.

The British manufacture has been made possible by the use of a very advanced Laeis press which gives a greatly increased pressure in forming the tile (125 tons per sq. in. as compared with about 40 tons previously obtained). The press also has a two-station feed system which gives a much greater range of colour combinations and surface textures as well as offering manufacturing economies in the use of costly stains. It has an output of 28 tiles per minute.

Carter Tiles, Ltd.,
Poole, Dorset.



The new Laeis press in operation

2. Miscellaneous

A diaphragm HOPPER LEVEL SWITCH has been developed which is designed to shut off the flow of granular or semi-solid material into a hopper, bunker or silo, when the level of the material reaches a height pre-determined by the mounting position of the switch. It consists of an aluminium-alloy housing which is mounted on the wall or sloping floor of the hopper, the inside face being sealed by a strong synthetic-rubber diaphragm. When the material in the hopper presses against this diaphragm its deflection displaces a spring-loaded plunger, which in turn actuates a standard single-pole changeover microswitch. The pressure of material against the diaphragm can therefore be arranged to open or close a circuit, for alarm or control purposes. The cover of the switch chamber is sealed by a gasket to provide weatherproof protection, whilst the diaphragm seals the working parts from any dust or liquid in the hopper.

Firth Cleveland Instruments Ltd.,
Treforest, Glamorgan.

3. Protective Coatings

A new ANTI-CORROSIVE COATING has recently been developed which, in two coats, attains a film thickness of 20/1000 in. the equivalent to some 15 to 20 coats of normal paint. It has excellent resistance to all forms of attack by acids, alkalis, sea-water, oil, sewage and brine and, on metals and concrete, good adhesion is obtained without priming. Primarily designed to preserve plant, pipework, tanks, coke-oven equipment and dock and harbour installations from chemical attack, it should appeal to the corrosion and maintenance engineer as a means of saving both labour and time.

Tretol Ltd.,
The Hyde, London, NW9.

4. Insulation

The sprayed skin technique for preservation of valuable equipment is well known, and widely used in packaging, under the name 'Cocoon.' A specially developed version is now available for building trade applications, particularly as a WATER BARRIER, whether in the form of vapour or liquid. It is applied 'in situ' by spray gun as an internal finish and can be sprayed across gaps so that a completely continuous film from wall to wall can be obtained. This prevents the migration of water vapour through the insulating material and a subsequent deterioration in its heat retaining property. The film provided is also sufficiently elastic to follow the contraction and expansion which occurs in buildings at different seasons of the year.

R. A. Brand & Co., Ltd.,
Works-road, Letchworth, Herts.

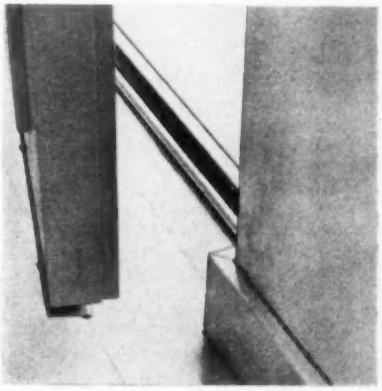
5. Ventilation

A compact EXTRACTOR FAN has recently been introduced which is easy to instal and can be fitted to any normal window. It consumes only one unit of electricty in 40 hours of running and, due to a fixed metal cover which shields the exterior of the fan against wind currents, the 6 in. blade gives efficient ventilation without draughts. Construction is of rust-proof alloy and self-lubricated bearings avoid any need for maintenance.

Hillman Electric Motors, Ltd.,
Crane-grove, London, N7.

6. Doors

A WEATHER BAR has been developed which is said to be completely wind and waterproof on outside doors. It consists of a galvanised steel angle projecting below the door which, when the door is closed, forms a seal against a galvanised steel-lipped channel. The bar can be used equally well on both inward and outward opening doors. The channel, which has hooded weep holes, is supplied oversize and has to be cut to fit tightly between the door frames. There are no moving parts, operation is silent and there is sufficient clearance for a doormat to be placed inside the door.



Detail showing the angle projection and the steel-lipped channel

Douglas Aitken (Metal Works), Ltd.,
176 Hope-street, Glasgow, C2.

Technical Publications

A comprehensive reference catalogue describing fully the range of engineers' brasswork produced by PEGLERS LTD. has just been published. It supersedes the last edition produced in 1954, and should prove a valuable source of reference for all engineers concerned with the specification and provision of control fittings on steam, oil, air and water pipe lines.

The fittings are listed under various sections and each is fully described, with dimensioned drawings and, in some cases, with sectional drawings. Against each item, where applicable, is given the relevant British Standard to which it is manufactured. The book also contains information on a number of new lines introduced during the past few months, including colour-coded, non-heating handwheels which are now fitted as standard on all Peglers' valves. Copies are available on application to the company at Prestex House, Marshalsea-rd., London, SE1.

News in Brief

Unemployment in Building

THE NUMBER of those in the construction industry who were unemployed on May 16 was 43,262, a decrease of 6,603 compared with the figure for April 11, according to Ministry of Labour statistics.

Housing Survey

A FULL-SCALE survey of houses which may give rise to bad living conditions because of the number of families living in them or because of inadequate domestic facilities, is to be started in London. Plans are being worked out by officials of the LCC and London boroughs.

South Wales Scholarship Award

THE SCHOLARSHIP donated by the South Wales and Monmouthshire section of the Federation of Civil Engineering Contractors has been awarded to Mr. R. G. Newell, a pupil at the Bridgend Grammar School. The scholarship, which is tenable for three years and is valued at £400 per year, will enable Mr. Newell to study civil engineering at the Imperial College, London.

First Electrical Fair Deferred

SCHEDULED to be held from September 23 to October 1, 1960, at Alexandra Palace, the First Electrical Fair has been deferred; the majority of exhibitors having indicated that they prefer a venue in Central London. The Organisers hope to make a further announcement in the near future.

Standards for Protective Helmets

IN AN ATTEMPT to get world-wide standards adopted for safety headwear worn by road users and industrial and mining workers, the British Standards Institution, the Protective Headwear Manufacturers Association and other safety interests, have set up a new committee of the International Standards Organisation. The first meeting will be held at British Standards House in London (from October 12 to 14).

Manchester Building Courses

A STUDENT'S GUIDE to facilities available in the Manchester area for courses of study in building and the building trades during 1960-61 has been published by the Manchester and District Advisory Council for Further Education. The guide, which covers both full and part-time courses, elementary, intermediate and advanced, may be obtained from the Education Offices at Deansgate, Manchester 3.

Fire Protection

THE REPORT on 'Lightweight Fire Protection for Structural Steelwork' is now on sale again. The report is drawn up by Fredk. S. Snow & Partners and illustrates a number of methods using vermiculite plaster. Main distribution for this publication will be: Lightweight Fire Protection for Structural Steelwork, Room 330, 52 Bedford Row, WC1, where copies can be obtained.

Southern Counties Federation

THE Southern Counties Federation of Building Trades Employers' Year Book and Directory for 1960 has now been published. The volume is divided into five sections which include much useful information on industrial and contract matters, and a directory of government departments, professional societies and national federations. Copies may be obtained from the Federation at Sterling Buildings, Carfax, Horsham, Sussex.

Plywood Appointments

THE Plywood Manufacturers Association of British Columbia announce the appointment of Mr. John A. McLean as an additional technical representative in the UK. Mr. McLean, who arrived in Britain recently from Vancouver, will be working out of the Association's London office. Mr. K. C. Brumley, also from Canada, has arrived to take up his position with the Association as advertising and publicity supervisor.

Ergonomics in Industry

ERGONOMICS, the study of man in relation to his working environment, is to be the subject of a three-day conference being organised by the Department of Scientific and Industrial Research at the Connaught Rooms, Great Queen-street, WC2, from September 27-29 inclusive. Further details of the conference can be obtained from Miss H. M. Clay, DSIR, 14-18 Cornwall-terrace, Regent's Park, NW1.

North Devon Beauty Spots

THE Minister of Housing and Local Government has confirmed an order made by the National Parks Commission for the protection of some 66 square miles of North Devon countryside. The area comprises some of the finest coastal scenery in Britain, including the whole of the Hartland Peninsula, Clovelly, Braunton Burrows, Croyde, Woolacombe and Combe Martin, near the western edge of the Exmoor National Park. The order designates these parts of North Devon as 'Areas of Outstanding Natural Beauty,' not as a National Park.

Accidents in the Cement Industry

THE YEAR 1958 gave the cement industry its best record for accident prevention and although the results for the first few months of 1959 showed more improvement, the final results were disappointing. The total number of reported accidents for 1959 was 266, an increase of 12 over the previous year. This represents a setback, though only a minor one, to the encouraging downward trend since 1956 when the number was 410. These figures are given in a report by the Accident Prevention Advisory Committee of the Cement Makers' Federation. Copies may be obtained from Terminal House, 52, Grosvenor-gardens, SW1.

International Apprentice Competition

IT HAS been announced that the International Apprentice Competition for 1960 will be held in Spain. Apprentices may compete for hard stone cutting, granite cutting and bricklaying, and each of the participating countries is free to submit drawings for the tests to be undertaken. It is hoped that firms and other organisations will submit the names of suitable candidates for the British team. Further information may be obtained from the Director(AC), City and Guilds of London Institute, 76 Portland-place, London, W1.

Sites and Foundations

NUMBER FIVE in the Building Research Station's Factory Building Study series is a paper on 'Sites and Foundations' by Mr. A. D. M. Penman, MSc, AMICE (HMSO, price 3s.). It deals with the assessment of soil conditions and the design of foundations appropriate to them, and the type of building to be erected. The paper stresses the need for adequate site investigation with particular emphasis on the inter-relationship between site conditions and the design of the building structure.

Evidence to Noise Committee

THE Committee on the Problem of Noise, of which Mr. A. H. Wilson is chairman, which was appointed by the Minister for Science 'to examine the nature, sources and effects of the problem of noise and to advise what further measures can be taken to mitigate it,' is now ready to receive evidence from persons and organisations with special interest or experience in matters relevant to the problem of noise. Anyone wishing to give evidence should first write to the Committee's secretary, Mr. R. S. Matthews, Ministry of Health, Savile-row, London, W1.

Company News

THE LIMMER & TRINIDAD LAKE ASPHALTE CO. LTD. recommend the payment of a final dividend of 11 per cent (less tax) on issued ordinary stock of the company for the year ended December 31, 1959.

ALLIANCE BOX CO. LTD. recommend the payment of a final dividend of 11½ per cent (less tax) on the 5s. ordinary shares for the year ended March 31, 1960.

WILMOT BREEDEN (HOLDINGS) LTD., recommend the payment of a final dividend of 9 per cent (less tax) on the ordinary shares of the company for the year ended December 31, 1959.

Personal Column

On the retirement of MR. F. PAYNE, director of The Cement Marketing Company's technical services, the following appointments have been made to the Development Division: *General Manager*, MR. H. A. HOLT, MIStructE; *Chief Technical Adviser*, MR. K. H. BRITTAIN, AMICE. Additional appointments are: *Special Products Division General Manager*, MR. J. W. WHALLEY. *Whiting Division, General Manager*, MR. H. H. MARSHALL. As from June 1, MR. A. H. DU VERGER has been appointed publicity manager of The Cement Marketing Co. Ltd.

MR. JOHN NEWMAN, joinery sales manager of H. C. Janes Ltd., has been installed as chairman of the Bedfordshire, Hertfordshire and Cambridgeshire Branch of The Incorporated Sales Managers Association.

Beaven & Sons Limited announce that their joint managing director, MR. A. W. BEAVEN, is retiring after 50 years' service with the company. Mr. Beaven will remain on the board in an advisory capacity. After his retirement, the Westminster office of the company will be closed, and inquiries and contracts will be dealt with from the head office at 183 Westgate-street, Gloucester.

GYPSUM MINES LTD

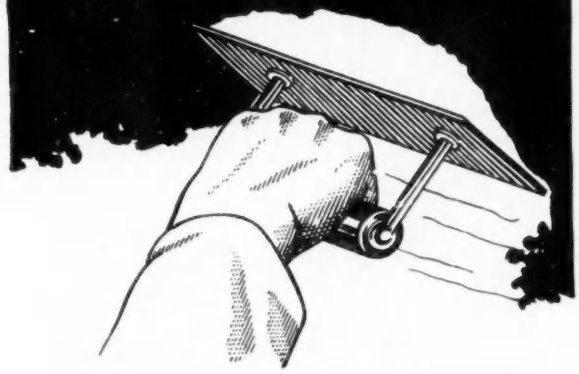
manufacturers of

'SIRAPITE'

regd

PLASTERS

Recommend...



...R.I.W. 232*

DAMP RESISTING COMPOSITION AND PLASTERBOND

Yes, Gypsum Mines Ltd., always recommend R.I.W. 232 the original Damp Resisting Composition and Plasterbond as a basis for their 'Sirapite Browning' or 'Sirapite Lightweight' Undercoats whenever damp proofing is a major requirement.

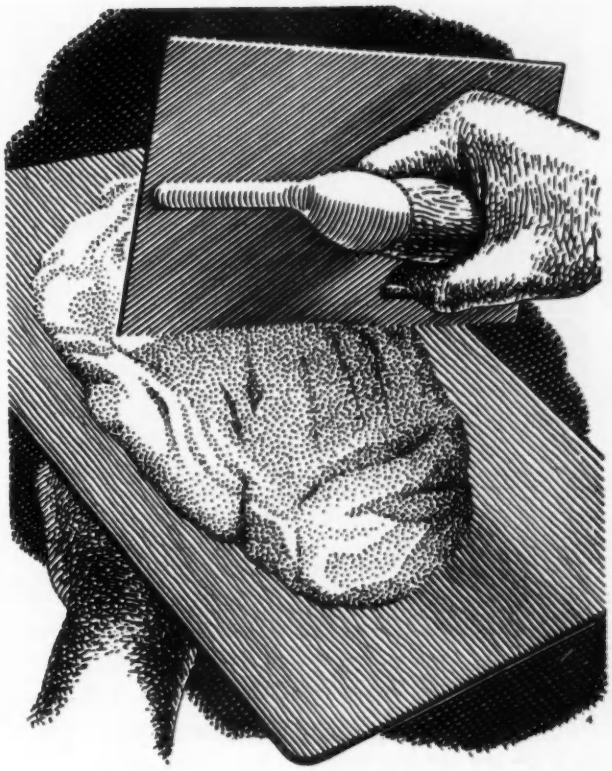
- ★ **Essential for all solid wall constructions—**
- ★ **Ensures permanently dry structures—**
- ★ **Permits thin solid external walls—**
- ★ **Solves the problem of rising damp—**
- ★ **Eliminates hacking—**
- ★ **Provides permanent plasterbond on concrete, brickwork, and painted surfaces—**
- ★ **No fixings required—**

This combination of first class properties allied with the characteristics of 'Sirapite' Plasters, gives the finest interior wall coating in use today. Full details, literature and technical advice are available on request.

Don't forget the barrel quantity is the most economical.

R.I.W.

R.I.W. Protective Products Co. Ltd.
325 Whitehorse Road.
Croydon, Surrey
Tel. Thornton Heath 6121/2

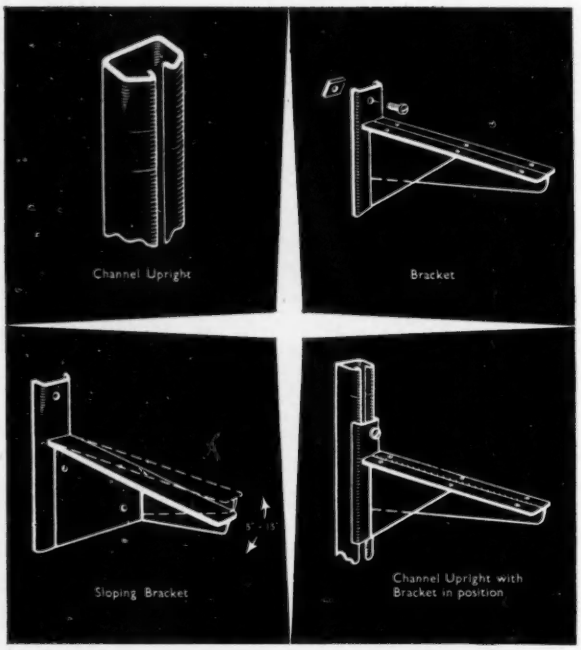


Craftsmen in plastering, granolithic and floor screeds

Alan Milne

(PLASTERING) LTD

Office and Works *tele:* Perivale 5602
EMPIRE HOUSE · HANGER GREEN · WESTERN AVENUE · W.5

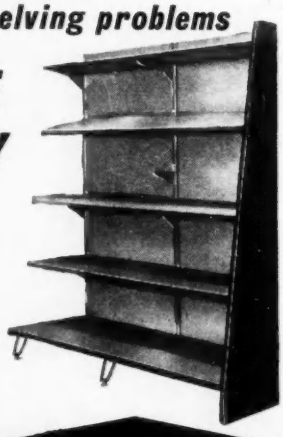


'PARNADEX'

HERE'S A *NEW* BAR & BRACKET SYSTEM

to solve all your shelving problems

IT'S SIMPLE IT'S SPEEDY AND VERY VERSATILE



The diagrams above show briefly the basic principle of 'Parnadex' . . . the illustration on the right shows just one of the many shelving units which can be produced so easily and efficiently from 'Parnadex', let us send you the complete story.

IT'S BUILT THE 'PARNADEX' WAY

PLEASE SEND ME COMPLETE DETAILS OF 'PARNADEX' IT'S APPLICATIONS AND COST

Signed .....

Address .....

.....

Post to **PARNALL & SONS LTD (S.E.D)**
LODGE CAUSEWAY · FISHPONDS · BRISTOL
B.6. *Telephone: BRISTOL 654271-9*

But... Practical Building needs LIME

London County Council Sheerwater Estate, Woking, Surrey.

for Durability —workability

You take no chances with LIME/gauged mortars. Under every possible *practical* test, LIME has proved itself supreme.
Remember: LIME/gauged mortars ensure without question:

- Reliable strengths within closely known limits.
- Sufficiently rapid stiffening to take weight of superimposed structure as work proceeds.
- The most suitable texture for frost resistance.
- Minimum shrinkage producing weatherproof brickwork and masonry.
- Good workability and plasticity.
- The correct mix can be chosen to give durability for all practical conditions. **It is not possible to misuse lime in conjunction with the proper materials.**

45

THE SOUTHERN LIME ASSOCIATION
Hanover House,
73–78 High Holborn,
London, W.C.1.
Tel: HOLborn 5434

or

THE LIMESTONE FEDERATION
Manfield House, 376–8 Strand,
London, W.C.2.
Tel: COVent Garden 0621

LIME
use **LIME**
tested by time

A booklet on LIME/sand mixes gauged with cement and conforming to British Standard Codes of Practice will be sent free on application to either of the above.

LIME—MANUFACTURED TO COMPLY WITH B.S.890
—This is your safeguard to ensure satisfaction.

OVERSEAS BUILDING

From Our Own Correspondents

CANADA (ALBERTA).—The Alberta Gas Trunk Line Co. has awarded a $6.5m. contract for 72 miles of pipeline from Torrington to Rimley.

CANADA (BRITISH COLUMBIA).—Construction of a 60-unit block of flats, on a 37-acre site, has been announced for Castlegar, the site of Celgar's new lumber project.

CANADA (NEW BRUNSWICK).—The $10m. redevelopment of the business section of Moncton includes plans for the construction of a new Canadian National Railway building.

CANADA (NEWFOUNDLAND).—The Foundation Maritime Co. Ltd., of Halifax, are to construct a $1.5m. wharf and shed at Corner Brook.

CANADA (ONTARIO).—Construction of a new applied physics laboratory building, for the National Research Council at Ottawa, will cost nearly $3m. . . . American Motors are to construct a new plant at Peel Village, near Brampton. . . . The Bramalea Construction Co. will start construction of 420 housing units at Bramalea this month. . . . P. Graham Bell Associates are to construct a new plant on 7¾ acres at Georgetown. . . . Queens University, Kingston, are to spend $9m. on the construction of new buildings. . . . The Union Carbide Co. is to construct a new plant, on an 11-acre site, at Oakville. . . . The National Standard Co. is to construct a $1m. building at Guelph.

CANADA (QUEBEC).—A $3m. construction programme has been announced by John Labatts Ltd.'s brewery at Montreal. . . . The Quebec Hydro-Electric Commission has announced plans for capital expenditures of $724m. for the 1960-1964 period, most of which will be for construction. The Manicouagan River development is to cost $298.5m.; $144.2m. has been reserved for the Carillon development; a new head office building is to cost $21m., and a new thermal plant at Gaspe $12m. . . . British Titan Products (Canada) Ltd., are to construct a $15m. plant at Tracy, near Sorel.

SOUTH AFRICA.—Two new factories for the manufacture of motor vehicle components are to be built with the backing of a British firm. They will cost over £1½m. The company, at Port Elizabeth, will be known as Ruberowen. The British firm, Rubery Owen & Co., is linking with the South African iron and steel concern, Vecor, to form the new South African company. . . . Another company, Associated Engineering Ltd., of Leamington Spa, has finalised plans to establish a factory to manufacture cylinder liners, pistons and piston rings at Roodepoort, near Johannesburg. The development will be based on the present Roodepoort plant of the company's subsidiary, Eugene Lauf (Pty) Ltd. The expansion will require an investment of over £½m.

British Firm Acquires Australian Concern

RICHARD COSTAIN, LTD., have bought a controlling interest in the Australian contracting firm of Hansen and Yuncken Pty., Ltd., of Melbourne, Victoria. Hansen and Yuncken operate throughout Australia and are one of the largest builders in the southern states. Operations include civil engineering of all kinds, as well as building and estate development. The company will be known as Costain, Hansen and Yuncken Pty., Ltd., and the present management will continue with Mr. C. R. Hansen as managing director, but Mr. D. J. Durack and other members of Richard Costain, Ltd., will join the board.

Nigeria's First Window Factory

THE FIRST factory in Nigeria to manufacture metal windows and doors was officially opened at Port Harcourt on May 18 by the Eastern Regional Minister of Commerce, Chief J. U. Nwodo. The new company is a joint enterprise between the Eastern Regional Government and Messrs. Williams and Williams, Ltd. of England. The factory has been built and equipped at a cost of £100,000 and its initial annual production will be 400 tons of steel windows and doors.

Dominican Republic: Building Research

A BUILDING MATERIALS research laboratory has been set up in the Dominican Republic as a private company. Its work will be concerned chiefly with soil analysis for firms tendering for contracts. Tests for maintaining the quality of concrete and road materials will also be carried out. One section will deal with metal products including roofing materials and pipes.

Dominican Republic: Building Board

EQUIPMENT valued at $2m. has arrived in the Dominican Republic for the manufacture of bagasse building board, the first to be undertaken in South America. The equipment will be assembled in seven factory buildings throughout the Republic. In addition to building board for prefabricated houses, a plastic faced board is to be produced, suitable for both internal and external use. The company, Industrial Dominicano-Suiza, plans to export part of its production to Europe and the USA.

Trade News

Alport House, Manchester

THE TERRAZZO STAIRCASE for Alport House, the new office block and showrooms in Quay-street, Manchester, illustrated in 'The Builder' of June 10, was carried out by Messrs. Conways (Tiles & Terrazzo) Ltd., of 163 Plymouth Grove, Manchester 13, and not as stated.

Self-Drilling Fastener

RAMSET FASTENERS, LTD., of 788a Finchley-rd., London, NW11, have now gone into full production for Terrier Self-Drilling Fasteners. The Terrier can be installed into very hard concrete with extreme rapidity using any air or electrically operated impact hammer. They are available in three sizes: ¼ in., ⅜ in. and ½ in. BSW.

Manchester College of Science

WE ARE INFORMED by the South Western Stone Co. Ltd., Thessaly-road, South Lambeth, SW8, that the external facings for the Lecture Room Building, Manchester College of Science and Technology, illustrated in our issue of June 10, are in Portland stone and not as stated. The facings are being carried out by this company, and the stone is one of the most important sub-contracts.

Long-service Certificates

SIX MEMBERS of the staff of T. W. Farmiloe, Ltd., makers of Nine Elms Paints, who have completed 50 years of service this year were presented with commemorative certificates and cheques by the Chairman, Mr. Eustace Farmiloe, at the Company's Sports Club Dinner and Dance held at the Ardington Rooms, near Clapham Junction, on May 21. The company recently associated with Smith and Walton Ltd., makers of Hadrian paints. We understand that both brands will continue to be sold.

Price Reductions

TROJAN have announced reduction in the price of all their commercial vehicles to operate immediately. This includes chassis, chassis and front end, chassis and cab, van and personnel wagon in the 20-cwt. range. Similar reductions are indicated in the 25-cwt. range and also PSV models.

Meeting of Corrosion Scientists

SOME OF THE COUNTRY'S leading corrosion scientists and engineers will take part in a meeting being held in connection with the Corrosion and Metal Finishing Exhibition at Olympia this autumn. The Corrosion Group of the Society of Chemical Industry will be holding the meeting on Thursday, December 1, in the Empire Restaurant, Olympia, at the invitation of the organisers of the exhibition.

Official Notification

Imports of Bricks, Blocks and Tiles

THE BOARD OF TRADE have been asked to recommend the making of an Order in Council to require imported goods of the following descriptions to bear an indication of origin at the time of importation, sale and exposure for sale in the UK: Heat insulating bricks, blocks, tiles of infusorial earths, of diatomaceous earths, of kieselguhr, of siliceous fossil meal or of similar siliceous earth.

The application has been referred to the Standing Committee appointed by the Board under the Merchandise Marks Act, 1926. Representatives of any interests substantially affected by the application who desire to be heard at the public inquiry which will be held later by the committee, should write to the Secretary, Merchandise Marks Committee, Board of Trade Room 1103, Horse Guards-avenue, London, SW1, as soon as possible and not later than July 18.

SCOTTISH BUILDER

Fire Station for Ayr

AN £80,000 fire station is proposed for the Content House site, Gordon-terr., Ayr. This station will house the headquarters of the South Western Fire Area Joint Board—as well as normal fire-fighting facilities. The main unit will be the appliance room, arranged into four bays, which will accommodate four units. On the right of this block will be the three-storey administrative block with the Ayr Fire Station offices on the ground floor—the first floor accommodating the South Western Joint Board and the top floor will be given over to the recreation, dining and dormitory accommodation for men on watch duty. A practice tower and lock-ups are to be located on the western side of the drill ground. The general layout is planned to give maximum efficiency in use, simplicity of maintenance and pleasing external appearance.

Building will start at the end of this year and the station should be completed in 18 months from start on construction.

Glasgow Development

A NEW shopping centre is being developed at Shawlands Cross, Glasgow, where the former Elephant Cinema is being converted into a 100 ft. frontage of arcaded shops. Messrs. John K. Dickie and Son Ltd., builders, of Glasgow, who acquired the cinema from Sir Alexander King, are converting them for Murrayfield Real Estate Co. Ltd. The main frontage is to Kilmarnock-rd. Rear entry to the premises from Pollokshaws-rd. will eliminate congestion.

The same estate developers have also announced plans for the conversion of office and adjoining properties on George-st., Bathgate, into a similar shopping centre with a frontage of 100 feet. Supermarkets and departmental stores are among the proposed units. Murrayfield Real Estate Co. Ltd. are also involved in the Overgate Dundee development and have similar projects under consideration for Edinburgh, Kilmarnock and Aberdeen.

MR. RODERICK M. MACLEAN, executive director of the company, has indicated that they are prepared to spend £20m. on similar development schemes over the next four to five years if suitable sites offer themselves.

Housing Plan Rejected

PLANNING PERMISSION for the erection of 282 houses by Cumbernauld Development Corporation has been refused by the Town & Country Planning Committee of Dumbarton County Council at a special meeting held recently.

The houses concerned are spread over three recently scheduled developments in the new town area—Muirhead I (121 houses), Muirhead II (113 houses), and Seafar IV (48 houses).

The meeting was convened to make representations to the Corporation about features of housing construction and layout in Cumbernauld about which the committee, after inspection, felt concern.

New Buildings

CUMBERNAULD.—Discussions have taken place regarding a speed-up of building in the new town of Cumbernauld. St. Andrews House, Edinburgh, states that there is general agreement on the principle of increased building.

GLASGOW.—A capital expenditure of £3.3m. on educational building projects in Glasgow during the 1960-61 financial year has been approved by the education committee of Glasgow Corporation.

PAISLEY.—TC has approved plans for three blocks of twenty-storey flats in the Glen-st. development area.

RENFREW CC.—Bishopton prim sch.—various works and trades. Applications to County C., County-bldgs., Paisley.

STONEHAVEN BURGH.—Construction of foreshore and river protection works at Stonehaven. Arch. Henderson & Ptnrs., 21 Bridge-st., Aberdeen. Dep. £3 3s.

WEST LOTHIAN.—D. B. Gunn (Builders) Ltd., of Edinburgh, have applied to West Lothian Planning Com. for permission to develop a 22-acre site at The Inch, Bathgate, for private dwelling purposes. Intention is to provide up to 100 self-contained houses for the employees expected under the BMC development scheme.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are :

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	54 6½
2nd	33⅓	72 9
3rd	50	109 1
4th	66⅔	145 6
5th	75	163 7½

For female labour, the rates are :

	s. d.
Operatives on craft operations (at end of probationary period)	4 4
Operatives on labouring operations (at end of probationary period) ...	3 10

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

JUNE 27

(AR) WATFORD BC.—Erection of 27 aged persons' bungalows at Meriden estate. Boro' E&S. Dep. £2 2s. Tenders by July 21.

JUNE 29

(AR) SOUTHEND-ON-SEA CBC. — (a) Proposed extensions at Eastwood high sch. for girls, Rayleigh-rd., Eastwood. (b) Proposed new sports pavilion at Jones Memorial recreation ground, Eastern-ave. Boro' A. Dep. £2 2s. (each contract).

JUNE 30

(AR) LEICESTER CITY C.—Extensions to College of Art & Technology (phase 1). City A. Tenders by August 16.

(AR) NEWCASTLE REGIONAL HOSPITAL BD.—(1) Alterations and extensions to a former laundry building to provide an x-ray dept. at Tynemouth Victoria Jubilee Infirmary, North Shields. (2) Modernisation of nurses' home, and (a) alterations to provide a gymnasium and workshops at Winterton Hospital, nr. Sedgefield, Co. Durham. Secretary to Bd., Benfield-rd., Newcastle-upon-Tyne 6.

JULY 1

(AR) WALSALL CBC.—Erection of a sec. sch. at Bloxwich. Director of Ed.

(AR) WANDSWORTH MBC.—Erection of 16 garages in four groups at Notre Dame housing estate, Clapham. TC.

JULY 2

(AR) ESSEX CC.—Firm price tenders for:—(a) Erection of branch library at Broomfield. (b) New community association hall at Aveley. County A. (separate applications).

JULY 4

(AR) BRISTOL CITY C.—Fixed price tenders for conversion of stable block at Kings Weston House into sub-divisional police station. City A.

(AR) HANTS. CC.—Three additional teaching blocks at Winchester county sec. boys' sch. County A. Dep. £2 2s.

(AR) LUTON BC.—Fixed price tenders for 10 old people's dwellings at Muswell Close, Runfold estate. Boro' A.

JULY 5

NORTHERN IRELAND HOUSING TRUST.—Construction of 20 dwellings, together with ancillary and engineering works, at Little Back-la., Portaferry, Co. Down. Offices of Trust, 12 Hope-st., Belfast. Dep. £3.

(A) WARWICK CITY C.—Erection of 13 bungalows and 14 houses, etc., at East End clearance area (phase 1). Boro' E. Dep. £2 2s.

JULY 6

NORTHERN IRELAND MINISTRY OF FINANCE.—Construction of head Post Office, Omagh. Room 103, Law Courts Building, Belfast. Dep. £5.

JULY 7

ARMAGH EC.—Erection of a central meals kitchen/dining hall at Mount St.

BROUGHTON MOOR

LIGHT SEA GREEN OLIVE GREEN AND BLUE

SLATE

for Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces and all architectural work.

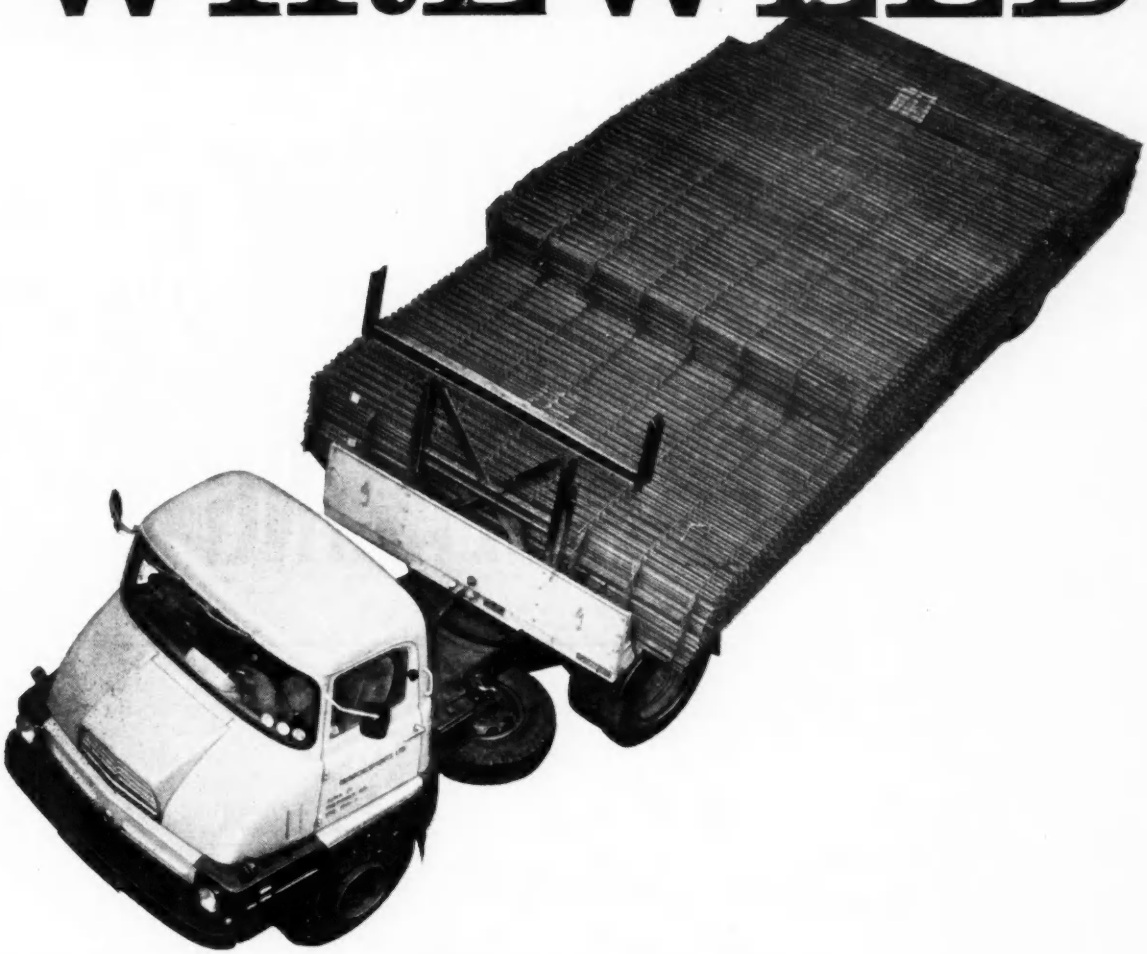
Send for technical pamphlets: 1. Floorings. 2. Facings. 3. Coping. 4. Cills. 5. Riven Faced Slabs.

The BROUGHTON MOOR GREEN SLATE QUARRIES Ltd.

CONISTON · LANCASHIRE

Telephone: Coniston 275/6 Telegrams: Conn, Coniston

WIREWELD



where you want it —when you want it

Deliveries of Wireweld fabric are made direct to sites anywhere in the country *at short notice.* Wireweld is a high-tensile steel fabric, manufactured from hard drawn steel wire electrically welded at all intersections to B.S. 1221, Part A. It is made in a wide range of sizes in oblong and square mesh.

If you want to put steel into concrete, get in touch with

G.K.N. Reinforcements Ltd.

(Formerly Twisteel Reinforcement Ltd.)

197 KNIGHTSBRIDGE, LONDON, S.W.7 (KENSINGTON 6311)

MIDDLESBROUGH: *(Middlesbrough 3843)* BRISTOL: *(Bristol 21555)* LEEDS: *(Leeds 27311)*
SMETHWICK, BIRMINGHAM: *(Smethwick 1991)* CARDIFF: *(Cardiff 45220)* LEICESTER: *(Leicester 25114)*
GLASGOW: *(Bell 2444)* MANCHESTER: *Ardwick 1691)* *Works:* SMETHWICK, WIGAN & GLASGOW

A MEMBER OF THE GKN GROUP OF COMPANIES

GLASS in PATENT GLAZING

the most **efficient,** the most **durable** and generally, the most **economical** method of **natural lighting** for industrial and operational buildings

CONSULT THE PATENT GLAZING SPECIALIST

THE PATENT GLAZING CONFERENCE

BURWOOD HOUSE · CAXTON STREET · LONDON · S.W.1

Catherine's intermediate sch., Armagh. County A., 9 Beresford-row, The Mall, Armagh. Dep. £5 5s.

JULY 8

(AR) HUNTS. CC.—Fixed price tenders for clinic and administrative block at Stanground. County A. Tenders by August 12.

NORTHERN IRELAND HOUSING TRUST.—Construction of 40 dwellings and 29 garages at Downpatrick (Kary Hill), together with ancillary and engineering works. Offices of Trust, 12 Hope-st., Belfast. Dep. £3.

JULY 9

(AR) OUNDLE & THRAPSTON RDC.—Siteworks including the construction of carriageway and laying of general services—entailing the construction of a septic tank, —and the erection of first instalment of 20 dwellings and nine garages at Collyweston. A to Council. Dep. £3 3s.

JULY 11

(A) BINGLEY UDC.—36 flats at Poplar House, Bradford-rd. S & A. Dep. £2 2s.

(A) FLINT BC.—Fixed price tenders for 87 'Unity' dwellings at Pen Goch. Boro' E&S. Dep. £3 3s.

(AR) LISKEARD BC.—Construction of 66 houses, 15 bungalows and 30 garages, etc., at Lake-la. housing estate. G. R. Vaughan Ellis, chartered architect, National Provincial Bank-bldg., Trehawke-hse., Liskeard, Cornwall.

(AR) SOUTHEND-ON-SEA CBC.—Three-storey block of flats and maisonettes at Mendip-cres., Westcliff-on-Sea. Boro' A. Dep. £2.

JULY 12

CLARE CC.—Erection of twelve houses and works incidental thereto at Killaloe. County Secretary, Courthouse, Ennis. Dep. £5.

(AR) MERTHYR TYDFIL CBC.—Construction of single-storey omnibus garage (stage 2), with boiler house and all services. TC. Dep. £3 3s.

JULY 13

(A) SOUTHEND-ON-SEA CBC. — Staff toilet and handicraft room at Westcliff high sch. for girls. Boro' A.

(AR) WALLASEY CBC.—Erection of works depot and garages at Town Meadow-la., Moreton. TC. Boro' A.

JULY 14

(A) ASHTON-UNDER-LYNE BC. — Firm price tenders for a three-storey block of six flats and a three-storey block of six shops and 12 flats, with garages, at Hazelhurst estate. Boro' S. Dep. £3 3s.

JULY 15

(A) ASHBY WOULDS UDC. — Repair, reinstatement and reconstruction of houses damaged by mining subsidence. Pick, Everard, Keay and Gimson, 6 Millstone-la., Leicester. Dep. £2 2s.

(A) CARSHALTON, MERTON & MORDEN JOINT CEMETERY BD.—Erection of a cedarwood greenhouse at Bd.'s Cemetery, Garth-rd., Morden. Joint S., Morden Hall, SW19.

JULY 18

(A) ESSEX CC.—Firm price tenders for new farmbuildings and improvements to two houses at Butts Green farm, Clavering, Saffron Walden. County Land Agent & Valuer.

(A) HEMEL HEMPSTEAD BC.—Erection of a public convenience at Stoneycroft, Warbers End. Boro' E.

JULY 21

(A) EALING BC.—Erection of eight flats at Windsor-rd., W5. Boro' S. Dep. £5.

(A) LUTON BC.—Erection of caretakers' houses at Stopsley CSM sch. and St. Margaret of Scotland RC sch. Boro' A.

(A) REIGATE BC.—Fixed price tenders for one block of 16 maisonettes with stores under and one block of 10 maisonettes at The Dome estate (North-st.), Redhill. Boro' S. Dep. £2 2s.

JULY 22

(A) NORTH RIDING EC.—Alterations and extensions to North Riding Training College, Scarborough. County A.

(A) WOKINGHAM BC.—Erection of 21 dwellings at Commons-rd. housing site. Boro' S. Dep. £2 2s.

JULY 25

(A) FAVERSHAM BC.—Erection of 26 houses at Upper Brents. Boro' S. Dep. £2 2s.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

(A) TUNBRIDGE WELLS RBC.—Construction work at Monson-rd. baths. Boro' S. Dep. £2 2s.

NO DATE

(A) INDEPENDENT TELEVISION AUTH. —Fixed price tenders for new transmitting stations at Mongour, Kincardine (nr. Aberdeen) and Roskill, Ross & Cromarty (Black Isle). E. R. Collister & Associates, 70 Victoria-st., SW1, architects.

SERVICES, PAINTING, MATERIALS, ETC.

JUNE 30

BELFAST.—Internal painting to St. Malachy's Convent prim. sch., Sussex-pl., Belfast. William D. Bready, architect, 12 Antrim-rd., Belfast. Dep. £3 3s.

NORTHERN IRELAND HOUSING TRUST.—External repainting of 264 dwellings at Dungannon (Drumcoo). Offices of the Trust, 12 Hope-st., Belfast.

JULY 4

(AR) WATFORD BC.—(a) Reinforced concrete, and (b) heating and ventilating to public library. Boro' E&S.

JULY 6

(AR) STOCKTON-ON-TEES BC.—Services, etc., for new three-form entry sec. mod. sch. for girls at Hardwick. Boro' A.

'A Building Firm Steps Out'

Reprint Now Available

IN RESPONSE TO MANY REQUESTS, the series of articles which have lately appeared in 'The Builder' under the title 'A Building Firm Steps Out' has been reprinted in booklet form and is now available from the Publisher, The Builder, Ltd., 4 Catherine-street, Aldwych, W.C.2. The price is 2s. 6d. (2s. 10d. post paid) but orders from firms who wish to distribute copies to their senior executive staff and foremen can secure copies at 2s. each (post paid) if 12 or more copies are ordered.

The book, written by Cecil A. Francis, Director of the NFBTE Building Advisory Service, describes the growing pains of a firm of builders, Albert Head, Ltd., employing about 200 men. It bids fair to become a classic of its kind.

JULY 7

(AR) HASTINGS CBC.—Electrical installation at St. Paul's prim. sch., Horntye-rd., St. Leonards-on-Sea. Boro' E. Dep. £3 3s.

(A) UXBRIDGE BC.—Painting of lamp standards, beacon posts and sewer vent columns. Boro' S. Dep. £2 2s.

JULY 9

(AR) SOUTHAMPTON CBC.—Erection of buildings and boundary walling, laying of roadways, pavings, services, etc., to new central waterworks depot, Central Station Bridge. Boro' A. Tenders by August 8.

JULY 12

(A) READING CBC.—External and part internal redecoration of Reading Technical College. Boro' A.

JULY 15

CASTLEFORD BC.—External painting of 252 houses at Ferry Fryston estate. Boro' E&S. Dep. £2 2s.

(A) TIPTON BC.—Supply and installation of sectional mortuary chill room. Boro' E&S.

JULY 22

(A) STAINES UDC.—Installation of fire appliances to 170 houses. E&S. Dep. £2 2s.

AUGUST 4

(A) LEICESTER CITY C.—Re-erection of dressing cubicles at Aylestone Baths, Knighton Fields-rd. west. City S. Dep. £1 1s.

NO DATE

FERMANAGH CC.—Repainting of Kersh county sec. intermediate sch. F. H. Wright & Ptnrs., 79 Botanic-ave., Belfast. Dep. £2 2s.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

JULY 1

BALLYMENA RDC.—Construction of Galgorm/Gracehill sewerage scheme—involving the laying of approx. 4 miles of sewer, with 1 mile of pumping main and the construction of underground pumping stations at Galgorm and Tullygarley Bridge. C., Cushendall-rd., Ballymena, Co. Antrim. Dep. £10 10s.

JULY 4

LURGAN BC.—Bitumen resurfacing and surface dressing of roads for 1960/61. Boro' S., 6 Union-st., Lurgan, Co. Armagh.

JULY 7

MARKET DRAYTON WATER CO.—Fixed price tenders for the laying of approx. 2,100yd. of 6 in. dia. spun and cast-iron water mains in the Parish of Tyrley, Staffordshire, and in Market Drayton, Shropshire. Pick, Everard, Keay & Gimson, constg. engrs., 6 Millstone-la., Leicester. Dep. £2 2s.

JULY 18

(R) AYLESBURY RDC.—Construction of approx. three miles of 6in. pitch fibre sewer and the construction of an ejector station and sewage disposal works, etc., for main drainage of Hardwick and Weedon. Howard Humphreys & Sons, constg. engrs., Victoria Station House, Victoria-st., SW1. Dep. £3 3s. Tenders by July 25.

JULY 21

LISBURN UDC.—Laying of approx. 4,200yd. of 12in. dia. spun-iron gas main from the Lisburn Gas Supply Boundary to the Lisburn Gas Works. TC. Dep. £3.

JULY 25

IRWELL VALLEY WATER BD.—Laying of approx. 4,400yd. of 15in. dia. spun-iron pipes, etc., from Hillock, Whitefield, to Clarke's Hill Reservoir, Radcliffe. E&M. Dep. £2 2s.

JULY 27

MIDDLESEX CC. — Construction of approx. 1½ miles of a dual 24-ft. carriageway-road by-passing the existing A6 route through South Mimms. The Barnet Road, A1081, will be diverted for approx. ½ mile with a single 24ft. carriageway-road. County E&S. Dep. £25.

GENERAL BUILDING WORK (LONDON)

BATTERSEA—Improvement Scheme.—The Housing Com. of the LCC report that 12 3-storey houses at Rosenau-rd., Battersea, already owned by the LCC, are to be rehabilitated at an estd. cost—including architectural expenses—of £39,700. The houses

will be modernised and converted—four of them for occupation by large families and eight by old people. The latter accommodation will comprise 36 bed-sitting rooms, each with a cupboard-kitchen, four bed-sitting rooms with a small dining/kitchen adjoining, and eight two-roomed flats suitable for married couples.

BERMONDSEY.—Slum Clearance.—The Housing Com. of the LCC has proposed that areas amounting to about 0.45 acre in the vicinity of Snowsfields, Bermondsey, shall be declared a clearance area. The land comprises 28 houses and other premises, including 4 shops and a laundry receiving office. It is proposed that part of the land zoned for residential and hospital purposes shall be cleared (for about £6,000) but not acquired; negotiations are proceeding for the purchase by agreement of the remainder of the land which is Crown property zoned for public open space. It is estimated that this, together with the clearance and partial redevelopment of this part of the land, will cost £6,000. Fifty-three persons will need to be rehoused from these areas and a small adjoining area zoned for hospital purposes and recently acquired by the Ministry of Health.

BERMONDSEY.—Acquisition of Property. —The LCC Parks Com. propose that four properties in Grange-rd., Bermondsey, should be purchased for addition to Bermondsey Spa open space and for road improvement. It is also proposed that the remainder of Canon Murnane-rd. between Grange-rd. and Bermondsey Spa should be closed. Est. cost of acquisition, clearance and partial redevelopment is £17,000, including incidental expenses.

BETHNAL GREEN.—School Extensions.—The LCC Ed. Sub-Committee have approved plans for adapting and extending Daneford county sec. sch., Bethnal Green, to accommodate about 1,000 boys. The cost of the work will be £371,520.

CAMBERWELL.—New School Buildings. —The LCC Ed. Sub-Com. have approved a scheme for erecting new buildings at Reddins-rd., Camberwell, for Elfrida Rathbone Day special sch. The new buildings, which will provide places for 180 educationally subnormal boys and girls between five and sixteen years of age, will cost about £83,350 and will consist of two blocks, each two storeys high, linked by a covered way. The premises in Marlborough Grove, Camberwell, at present used by Elfrida Rathbone School will be used as a county prim. sch.

DEPTFORD.—Acquisition of Site.—The LCC Housing Com. propose to acquire for housing purposes (by compulsory purchase if necessary) a site of about 2.33 acres as an extension to its Windmill-la. site, Deptford. Part of the site is clear of buildings. On the remainder are about 27 old two-storey houses. About 40 families will be displaced and about 65 new dwellings could be erected. The estimated cost of acquisition, clearance and partial redevelopment is £30,000. At present the land is zoned for waterside industry but the Minister will be asked to re-zone it for residential development.

DEPTFORD.—New School.—Preliminary plans have been approved by the LCC Ed. Sub-Com. for rebuilding Trundleys-rd. county prim. sch., Deptford, which was destroyed by enemy action during the war. The new school will have places for 280 children and is expected to cost about £74,980. The infants' and junior classrooms will be in separate single-storey buildings linked to the assembly hall by covered ways. Each classroom will have direct access to toilet accommodation and to an outside space for teaching.

DULWICH.—Housing Development.—The LCC Housing Com. have approved proposals for the development of the Friern-rd. site [*Camberwell, Dulwich*], a site of about seven-and-a-half acres lying between Upland-rd., Lordship-la., Barry-rd. and Etherow-st. The total accommodation proposed is 169 dwellings in four six-storey point blocks of flats (each served by a lift), six blocks of two-storey terrace houses, and two single-storey blocks of dwellings each of one or two rooms. It is also proposed to provide 28 garages, 48 tenants' stores, covered parking space for 38 cars and an estate workshop and yard. The density of development will be 23 dwellings (75 persons) to the acre. Estimated cost of the development, including architectural and incidental expenses, is £446,750.

FINSBURY. — Extra Expenditure. — The Housing Com. of the LCC now estimate that the cost (including laying-out of gardens, etc.) of constructing two 5-storey blocks containing 20 flats and 20 maisonettes, 31 tenants' stores and parking spaces for 7 cars at Wenlake estate extension, Finsbury, by the direct employment of labour at £130,300. This estimate exceeds by £8,900 an estimate approved in December 1957.

FULHAM.—Hammersmith Day College.—Plans have been approved by the LCC Ed. Sub-Com. for the adaptation and improvement of Hammersmith Day College at a cost of about £21,850. The day college will ultimately be replaced by a county college, but the present buildings are likely to remain in use for about ten years.

HAMMERSMITH.—Old People's Flats.—The LCC Housing Com. propose to provide 24 old people's flats (16 single and 8 double) at a total est. cost of £52,297 at Westway, Hammersmith, in association with a scheme of the Welfare Com. (*approved by the Council on May 24 last*) for a residential home for old people.

KENSINGTON. — Housing Development. —The LCC Housing Com. have approved proposals for the housing development (est. to cost about £78,000) of a site of about an acre in Walmer-rd. and Threshers-pl., Kensington, which was originally acquired for health service purposes. Two 4-storey blocks (containing 20 maisonettes and 10 flats) linked by a common staircase, 7 garages and 10 tenants' stores and parking space for 5 cars are to be provided. The ground floor of one block will be leased to general practitioners for group-practice accommodation comprising an entrance hall, 4 consulting rooms (each with examination room), a waiting room, offices and lavatories.

The Simple and Economical Way to ENSURE

EFFICIENT SLIDING DOORS

for any door, partition or window that slides or folds.

Henderson

Sliding Door Gear

Qualified Technical Representatives in all areas to wait upon you.

P.C. HENDERSON LTD., ROMFORD, ESSEX
Telephone: INGREBOURNE 41111 Dial IL4

LONDON (East End).—Electrical Services.—The LCC Welfare Com. have decided to prepare a £70,000 programme of improvements to the electric lighting at homes for old people at Hillside (Islington), Southern Grove Lodge (Stepney) and Ladywell Lodge (Lewisham), so far as possible in conjunction with the introduction of new furnishings.

PADDINGTON.—Proposed Hotel.—The MBC have offered no objection to proposals submitted to them by the LCC in respect of the erection of a 24-storey hotel on a site bounded by Bayswater-rd., Lancaster-terr. and Westbourne-st., which includes a basement garage and a petrol filling station at the northern end of the site.

PECKHAM. — Development. — Proposals have been approved by the LCC Housing Com. for developing the Camberwell-rd. site extension [*Camberwell, Peckham*], which is bounded by New Church-rd. and part of the proposed large North Camberwell open space to the north, and by Elmington estate, Lomond Grove and Camberwell-rd. After reservation of about three-quarters of an acre for highway purposes, there will be just over one-and-a-half acres available for housing. The total accommodation proposed is 79 dwellings in one 17-storey point block of flats and a four-storey block of maisonettes, and there will be 37 garages, 37 tenants' stores and parking for four cars. The density of development will be 50 dwellings (172 persons) to the acre. Estimated cost of the development, including architectural and incidental expenses, is £247,700.

SHOREDITCH. — Conversion Scheme.—The LCC Housing Com. have approved a scheme for converting six unheated drying rooms, 50 wash-houses and one bedroom at the Haggerston estate, Shoreditch, into two two-room flats, two three-room flats, 36 bedrooms and 11 heated dry-rooms containing 17 heated drying cabinets. The est. cost of the work, which will be carried out by direct labour, is £15,244.

SOUTHWARK.—Equipping New School. —The cost of providing additional plant and machinery for the London School of Printing and Graphic Arts, of replacing old or obsolete equipment and of transporting and installing equipment and machines in the school's new buildings at the Elephant and Castle will be about £514,300. The first estimate of cost (reported in 1958) was £429,600, but since that time there has been a considerable increase in prices of printing plant, etc.

SOUTHWARK.—Site for School.—The LCC Sub-Committee propose to erect a day college in Southwark on a site bounded by The Cut, Burrows Mews, Ufford-st. and Gray-st., and recommend acquisition for £73,000 of that part of the site not already in the Council's ownership.

STEPNEY.—Housing Development.—The Housing Com. of the LCC have approved proposals for developing the Ben Jonson-rd. site, Ocean estate [*Stepney*], in the Stepney-Poplar comprehensive development area. The site is nearly an acre in extent and lies between Ben Jonson-rd., Durham-row, White Horse-rd. and Dame Colet-hse. The total accommodation proposed is 35 dwellings in a four-storey maisonette block and a terrace of one-storey houses for elderly people. There will also be six garages, seven tenants' stores and two play spaces. The density of the development will be 37 dwellings (137 persons) to the acre. Estimated cost of the development, including architectural and incidental expenses, is £89,950.

(PROVINCIAL)

BELFAST.—White, Tomkins & Courage Ltd., millers, are to re-build and re-equip part of their premises in Belfast. Est. £100,000.

DEWSBURY.—BC propose improvements at Wheelwright grammar sch. for boys. Est. £20,000.

DISLEY.—RDC propose erection of 14 old people's bungalows at Buxton-rd.

DOUGLAS (IoM).—BC propose fireplace improvements to various housing estates. Est. £27,000.

HYDE.—Ches. EC propose erection of College of Further Education at Hilda-rd. Est. £500,000.

A NEW Electrolux FOR NEW PROPERTY...

...at a new low price

Model MB.16 built-in refrigerator is an entirely new development from Electrolux. Designed with builders and estate development in mind, it combines a new lightness in weight, "easy-to-build-in" dimensions and a generous storage capacity at a new low price, yet retains the quality and reliability which have made Electrolux world famous.

This refrigerator can be built into kitchen fitments at waist height, or at floor level beneath a draining board or work-top unit of British Standard Specification. Being a fixture, the MB.16 can be included in the mortgage. It will add distinction to any kitchen, and provide the most up-to-date and convenient method of safe food storage.

MODEL MB.16

* External finish in WHITE or CREAM
* Can be supplied with left or right hand door
* Permanently silent operation by electricity or gas
* No motor, no vibration
* Cooling unit guaranteed 5 years

Post to: Electrolux Ltd., Contracts Dept., 153/5 Regent St., London, W1

Please send me full details of model MB.16 Built-in Refrigerator

NAME .....
B(6A)

ADDRESS .....

Advanced CHEMICAL PRODUCTS FOR THE BUILDING TRADE

30 years service supplying superior products

Resilbond

THE PERFECT RESILIENT BONDER

For keying renderings and plaster. Cement repairs to a feather-edge. General purpose adhesive for building materials.

Hydralex SILICONES

FOR PERFECTION IN DAMP-PROOFING

Used the world over.
One coat. Invisible.
Economical and efficient.
Leads the field.

F&E MORTAR PLASTICISER

Free and Easy mortar at a big saving in cost, a £13 barrel does the same work as £256 of lime. It's a "must" for all efficient builders.

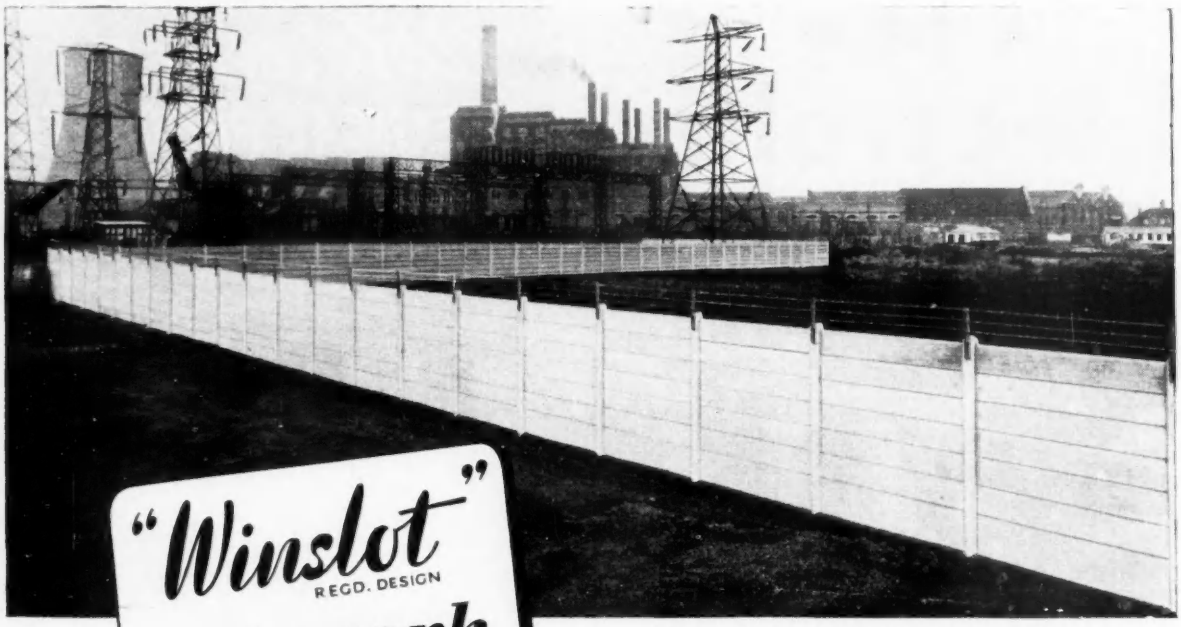
Pin your trade card here for descriptive brochures and other information relating to the above

To: **ASSOCIATED BUILDING PRODUCTS LTD**
NORTH MILLS · FROG ISLAND · LEICESTER

Please send details of Resilbond/Hydralex/F & E to

NAME _____

ADDRESS _____



"Winslot" REGD. DESIGN
-at work

By courtesy of the Central Electricity Generating Board, South Eastern Division

" Winslot " Type 3 panel fencing erected at Croydon 'A' Power Station.

" Winslot " has also been erected at the London Electricity Board Offices, Bethnal Green. Available in heights from 1 ft. to 12 ft. overall.

" Winslot " Palisade design with pre-stressed pales is the ideal alternative where an open type fence is preferable; in heights from 3 ft. to 8 ft.

In Areas of England, Wales and Northern Ireland not covered by Metropolitan Concrete Works Ltd., economic supply and erection services are available by selected manufacturing licensees.

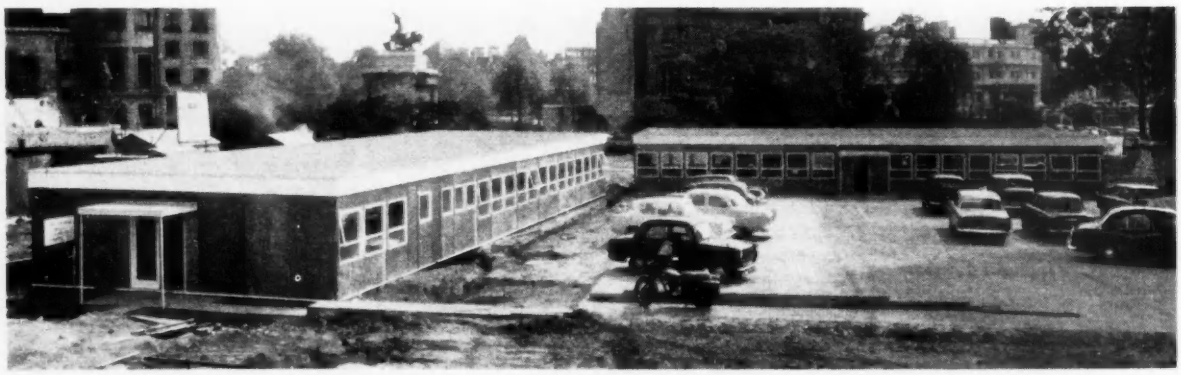
Experienced staff will survey your site and erect the fence

All enquiries to the proprietors of "Winslot" registered designs

METROPOLITAN CONCRETE WORKS LTD.

IMBER COURT, EAST MOLESEY, SURREY. Phone: Emberbrook 2211/2

RIGHT from the start !



Cubitts Fitzpatrick & Shand, main contractors for the Hyde Park Corner—Marble Arch Improvement Scheme, specified 'Middlesex' Prefabricated Buildings for their Project Manager's and the Resident L.C.C. Engineer's Offices at Hyde Park Corner.

M 'Middlesex' Prefabricated Buildings

PREFABRICATION IN THE MODERN MANNER

Manufactured and distributed solely by

J. F. LESSER & SONS LIMITED, GREEN LANE, HOUNSLOW, MIDDLESEX. (HOUNSLOW 7281-7)

KEIGHLEY.—BC propose erection of 30 bungalows at Whitefield-ave. and Braithwaite-ave.

NORTH RIDING. — EC has approved sketch plans for new infant sch. at Thornaby-on-Tees. The Committee's architect is D. W. Dickenson.

OLDHAM.—BC propose erection of four two-storey blocks of aged persons' dwellings at Alt estate. . . . EC propose youth centres at Holts and Limehurst estates.

STOCKTON - ON - TEES. — Corporation officials are to report on a £125,000 scheme for a new bus station.

TIPTON.—BC propose erecting 93 flats in multi-storey blocks at Groveland-rd. site.

WALLINGFORD.—RDC are considering expansion of Didcot's shopping centre between Vicarage-rd. and St. Andrew's-rd.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ASHINGTON.—Rc frame for new four-storey ward block at Ashington General Hospital for Newcastle Regional Hospital Bd. (A) Demolition & Construction Co Ltd., Queen-st., Newcastle-on-Tyne, £51,003 (general contractors for the scheme are R. Carse & Son, £219,304).

BARNARD CASTLE.—Erection of 12 houses for North Eastern Housing Assn. P. L. Browne, Son & Harding, Pearl-bldgs., Northumberland-st., Newcastle-on-Tyne, architects. (A) R. C. Williamson Ltd., Rowlands Gill, Co. Durham.

BLACKBURN.—Two aged persons' hostels at Shadsworth and Feniscliffe for BC. (A) Direct labour, £43,000 (each). — Sanitary annexe at Queen's Park Hospital for Manchester Regional Hospital Bd. (A) George Catterall & Sons Ltd., Adlington, Lancs.

EASTBOURNE.—Following for CBC:—24 houses at Langney Village estate. (A) Building & Public Construction Co. Ltd., Swindon, £43,147.—New laboratory block at Eastbourne Training College. E&S and Planning Officer is R. Williams. (A) Gee, Walker & Slater Ltd., London, W1, £22,588.

GATESHEAD.—Erection of shops and offices at High-st. for Mr. L. Rodney. Marshall & Tweedy, 36 Blackett-st., Newcastle-on-Tyne, architects. (A) Thomas Clements & Son, Selborne-gdns., Jesmond, Newcastle-on-Tyne.

HARWELL (Berks.).—Erection of goat farm for Medical Research Council. P. B. D. Sutherland, Maidenhead, architect. A. R. Mais & Ptnrs., London, SW1, quantity surveyors. (A) J. M. Jones & Sons Ltd., Highway-wks., Maidenhead.

HERSDEN (Kent).—Erection of county prim. sch. for CC. (A) J. F. Wiltshire & Co. Ltd., Canterbury. Est. £25,787.

LEEDS. — Showrooms/workshops/offices for Yorkshire Electricity Bd. (A) Mitchell Construction Co. (Leeds) Ltd.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended June 17:— *Building work:* Cosford, Shropshire, Seddon (Stoke) Ltd., 55 Duke-st., Fenton, Stoke-on-Trent, Staffs.; Coningsby, Lincs., Ellis Thompson & Co. Ltd., James-st., Louth, Lincs.; Boscombe Down, Wilts., Campbell & McGill Ltd., Easton-la., Winchester, Hants.; Bentwaters, Suffolk, Kyle Stewart (Contractors) Ltd., Ardshiel-hse., Empire-way, Wembley, Middx.; Gaydon, Warwicks., Lewis & Watters Ltd., Lime-ave., Lillington, Leamington Spa, Warwicks. *Repair and resurfacing work (roads):* Wattisham, Suffolk, East Anglian Roadstone & Transport Co. Ltd., 66 Bracondale, Norwich (NOR 59B). *Resurfacing runways and works, etc.:* Barkston Heath, Lincs., Richard Costain (CE) Ltd., 111 Westminster Bridge-rd., London, SE1. *Artificer's work:* St. Mary's, Isle of Scilly, Dudley Coles Ltd., Bath-st., Plymouth, Devon; Tangmere, Sussex, Mr. H. Richardson, Fairfield Farm, Horndean-rd., Emsworth, Hants. *Painting work:* Brize Norton, Oxon., Abbotts of Harrow Ltd., Sherborne-hse., 23-25 Northolt-rd., South Harrow, Middx.; Lindholme, Yorks., J. Ibbotson Ltd., 219 Bentley-rd., Doncaster, Yorks. *Waterproofing work (roofs):* High Ercall & Shawbury, Salop, Macartney Ltd., Birkett-hse., 27 Albemarle-st., London, W1. *Resheeting, side glazing and insulating work:* Middleton-St.-George, Durham, Walter Few & Sons Ltd., 17 Highbury Park, N5.

(GD) LONDON (British Railways).—Contracts placed by the Eastern Region:—Mitchell Engineering Ltd., The Bridge, Peterborough, for repairs to mechanical coaling plant at Peterborough (New England).— Constable, Hart & Co. Ltd., Lion-hse., Richmond, Surrey, for resurfacing of roadways in the King's Cross and Stratford districts.—Pavior Construction Co. Ltd., 17 Saltaire-rd., Shipley, Yorkshire, for resurfacing of roadways in the Peterborough and Doncaster districts.—Roadworks (1952) Ltd., 57/61 Commercial-rd., Ipswich, Suffolk, for resurfacing of roadways in the Ipswich district.—R. Ridd & Son (Contractors) Ltd., 153 Billet-la., Hornchurch, Essex, for cleaning and painting of stations, buildings, structures, etc., between Cleethorpes station and Marsh Junction and Holme Street Junction and goods junction.—R. Ridd & Son (Contractors) Ltd., 153 Billet-la., Hornchurch, Essex, for cleaning and painting of stations, buildings, structures, etc., between Bethnal Green Junction and Hackney Downs (London End) and Hackney Downs (Country End) and Phillip Lane Bridge No. 1936.—Crompton Parkinson Ltd., Contracts dept., Writtle-rd., Chelmsford, Essex, for supply, delivery and installation of EHV and MV switchgear and cables, transformers and rectifier at Doncaster Wagon Works.—Grant, Lyon & Co. Ltd., 80a Scotter-rd., Scunthorpe, Lincs., for drainage and blanketing of the formation and the trimming back of the cutting slopes, between Blankney and Nocton.

LONDON CC.—Construction of unit factories at Edenbridge estate, Sevenoaks, Kent, for Housing Com. (A) Frank Bilton (London), Ltd., £72,185.

Architect's comparable estimate is £72,765.

LONDON CC.—Road and sewer works at Alton-st. site, Poplar, for Housing Com. (A) Fitzpatrick & Son (Contractors), Ltd., £26,324.

QUARZITE
A NATURAL STONE
ROYAL
INSURANCE
MANCHESTER
FACINGS
SUPPLIED & FIXED
BY
JOHN STUBBS
(MARBLE & QUARZITE) LTD.
LIVERPOOL 7
TELEPHONE ROYAL 4951

Chief engineer's comparable estimate is £30,628.

LONDON CC.—Erection of 14 maisonettes and the conversion of Sherwood Lodge into four flats, with stores, garages (15) and a play space, at Alton estate extension, Wandsworth, SW, for Housing Com. (A) H. T. Oliver & Sons, Ltd., £43,580.

Architect's comparable estimate is £42,486.

(GD) LONDON (MoW).—Contracts placed for week ended June 4:— *Berkshire:* Renewal of chain link fencing at Home Office Store, Steventon; Baynes (Reading) Ltd., Fobney Saw Mills, Berkeley-ave., Reading. *Buckinghamshire:* Reconstruction of Post Office, Stony Stratford; Betts & Faulkner Ltd., 30a High-st., Stony Stratford. *Devonshire:* Erection of Post Office radio station, Halwell; Humphreys Ltd., Market-st., Plympton. *Dumfriesshire:* External painting to hangar No. 3 shed, Locharbriggs Airfield, Dumfries; E. L. Bell, Lyceum-bldgs., Dumfries. *Glamorgan:* Alterations and extensions to Inland Revenue office and Ministry of Pensions and National Insurance, Water-st., Neath; Griffith Davies & Co. Ltd., Paxton Yard, Swansea. *Gloucestershire:* Erection of Post Office radio station, Purdown, Bristol; Stone & Co. (Bristol) Ltd., Redland-rd., Bristol 6. *Lanarkshire:* DC power supplies at DSIR, East Kilbride; Lancashire Dynamo Nevelin Ltd., Hurst Green, Oxted, Surrey. *London:* Adaptations at Admiralty House, Whitehall, SW1; W. J. Southgate, 65 Kenway-rd., Earls Court, SW5.—Erection of HM Customs & Excise Office at Tilbury Dock; John Mowlem & Co. Ltd., 91 Ebury Bridge-rd., SW1.—Installation of LPHW heating at Joint Office-bldg., Northumberland-hse., WC1; Walter Cowen Ltd., Souldern-rd., W14.—Conversion of boiler plant at Joint Office-bldg., First Avenue-hse., High Holborn, WC1; J. Jeffreys & Co. Ltd., St. George's-hse., 195/203 Waterloo-rd., SE1.—Modernisation of electrical services at Joint Office-bldg., Northumberland-hse., WC1; Read & Partners Ltd., 28 Hatfields, Stamford-st., SE1. *Middlesex:* Helium purifying plant at National Physical Laboratory, Teddington; Shippam & Co. Ltd., Hawthorn-ave., Hull.—Erection of pumping equipment, etc., at above; G. C. Pillinger & Co. Ltd., 216 Sutton Common-rd., Sutton, Surrey.—Erection of automatic pumping equipment at above; W. C. Deane Ltd., Romney-wks., Amyand Park-rd., Twickenham, Middx.—Erection of goods lift at above; Evans Lift Ltd., Abbey-la., Leicester. *Midlothian:* Provision of a hardstanding area at Post Office site, Hopetoun-st., Edinburgh; Limmer & Trinidad Lake Asphalt Co. Ltd., Trinidad-hse., Crewe Road North, Edinburgh 5.—Renewal of leadwork on Parliament Hall roof at Courts of Law, Parliament-sq., Edinburgh; Hugh Twaddle & Son Ltd., 124 Buccleuch-st., Edinburgh 1. *Surrey:* Installation of heating services at Joint Office-bldg., Zeeta Factory, Station-rd., Barnes; Norris Warming Co. Ltd., Burley-hse., Theobalds-rd., WC1.—Landing platform at Gatwick Airport; Token Construction Co. Ltd., 68 Mount-st., Park-la., W1. *Yorkshire:* External and internal painting at Home Office Civil Defence store, Pollington; Singleton Decorators Ltd., 12 Priory-la., Doncaster.—Installation of boiler plant at Safety in Mines Research Establishment, Broad-la., Sheffield; J. B. Jackson & Partners Ltd., 167/8, Millbank, London, SW1.

(GD) LONDON (Metropolitan Police).—Result of tender for redecoration work:—External painting and internal redecoration at Albert Court, Linden Court and Augustus Court, Wimbledon, SW19. Allard & Saunders Ltd., £5,032.

(GD) LONDON (War Dept.).—Works contracts placed for week ended June 3:— *Co. Antrim:* Miscellaneous. Samuel Turtle Ltd., Ballymena. *Berkshire* (Didcot): Roofing. Maurice Hill Ltd., Horndean. *Cumberland* (Longtown): Earth moundings. Border Engineering Contractors Ltd., Whitehaven. *Co. Down* (Ballykinler): Miscellaneous. R. D. Pollock & Co. Ltd., Bangor, Co. Down. *Kent* (Hythe): Building. S. J. Sharp & Son (Hythe) Ltd., Hythe, Kent. *Warwickshire* (Long Marston): Building. Coleman & Tyas Ltd., Bidford-on-Avon. *Wiltshire* (Larkhill): Building. W. E. Chivers & Sons Ltd., Devizes. *Yorkshire* (Catterick Camp): Demolition. Alan Blair, Darlington.

MACCLESFIELD.—Construction of the £½m. Lamaload Dam for CBC. Herbert Lapworth & Ptnrs., constg. engrs. (A) Richard Costain (Civil Engineering) Ltd.

MIDDLESBROUGH.—Extension to tyre depot at South Bank-rd. light industrial depot for Gorrills Ltd. (A) Wimpey & Co. Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne.

MORPETH.—Erection of 18 houses at Mitford for RDC. (GD) Cussins Ltd., The Drive, Gosforth.

PRESTON.—Stores at Fishergate for C. & A. Modes Ltd. (A) Pauling & Co. Ltd., Victoria-street, London, SW1.

REDCAR.—Erection of pubic conveniences at the municipal car park for TC. (A) F. W. Hodgson & Sons, 44 West Dyke-rd, Redcar.

REIGATE.—Erection of 16 four-storey maisonettes and eight four-storey maisonettes, with stores under, at Dome estate for BC. Boro' E, S & planning Officer is G. G. Sanderson.

Greenaway & Sons Ltd.	£52,330
H. G. Winteridge & Co. Ltd. ...	51,504
Mitchell (Chipstead) Ltd.	48,551
(A) S. G. & A. Agombar	48,040

(Fixed price tenders)

SEATON VALLEY.—Erection of 48 houses at Cramlington for UDC. (GD) John Twiname Ltd., Heaton-rd., Newcastle-on-Tyne.

SHEFFIELD.—Following for TC:—148 houses and 168 garages at Gleadless Valley estate. (A) Direct labour, £306,164.—439 houses/45 garages at Fox Hill estate. (A) M. J. Gleeson (Contractors) Ltd., Sheffield 9, £926,303.—Schools for physically handicapped and spastic children. (A) M. J. Gleeson (Contractors) Ltd., Sheffield 9, £169,490.

SOUTHAMPTON.—Erection of central health clinic at East Park-terr. (phase 1—three-storey block) for CBC. Boro' A is L. Berger.

Bryan Developments Ltd.	£71,380
Mullen & Lumsden Ltd.	70,720
Hawkins Bros.	70,153
A. J. Dunning & Sons	64,741
H. G. Ross & Sons	64,379
(A) Wm. T. Nicholls (Southern) Ltd.	64,149

SUNDERLAND.—Alterations and extensions at Sunderland Maternity Hospital for Newcastle Regional Hospital Bd. S. W. Milburn & Ptnrs., architects, in conjunction with Regional A. T. H. Rae & Ptnrs., 5 Green-terr., Sunderland, quantity surveyors. (A) Milton Swales Ltd., South Shields, £11,119.

SUNDERLAND.—Erection of child welfare clinic and school medical accommodation at Hylton Castle estate for TC. (A) Cussins Ltd., Gosforth, £19,764.—Construction of oil storage tank of 5,000 tons capacity at Corporation Quay for Petrofina (Great Britain) Ltd. W. H. S. Tripp & Ptnrs., constg. engrs. (A) Whessoe Ltd., Darlington.—Additions to railway cleaning depot for TC. Boro' A is H. C. Bishop. (A) D. Glen Ltd., Co. Durham, £19,144.—Factory extensions for Ditchburns Ltd., Villiers-st., Sunderland. Architects are Newrick and Blackbell. (A) Randle & Co., £14,000.—Second stage of proposed extensions to Central library, museum and art gallery for TC. (A) D. & J. Rankin Ltd., £15,474.

SWADLINCOTE.—Fixed price tenders for 58 dwellings at Abbotts Farm housing estate, Newhall. E&S is J. W. May. (A) Messrs. R. Guilford Ltd., Ascot Drive, Derby, £87,000.

TYNEMOUTH.—Erection of PH at Hartington-rd., Marden, for J. Nimmo & Sons, Castle Eden, Co. Durham. Newrick and Blackbell, architects. (A) I. Berriman, Fence-hses, Co. Durham.

WALSALL.—Works extensions for Talbot Stead Tube Co. Ltd. (A) R. M. Douglas (Contractors) Ltd., George-rd., Birmingham, 23.

WINTERTON.—Alterations and adaptations to Male Ward 1 to provide sick unit for Newcastle Regional Hospital Bd. Fennell & Baddiley, architects (in conjunction with Regional A., P. H. Knighton). Thos. Barrett, Sons & Ptnrs., quantity surveyors. (A) Henderson Bros. (1936) of South Shields, £25,044.

FEDERATION OF MASTER BUILDERS

UNITE FOR STRENGTH

THE FEDERATION OF MASTER BUILDERS

The Largest Individually Representative Organisation in the Kingdom

Membership Over 12,000

Regional Offices in BIRKDALE BIRMINGHAM, BRISTOL, CAMBRIDGE CARDIFF, EDINBURGH, LEEDS, LONDON NEWCASTLE AND SEVENOAKS OVER 130 BRANCHES

SUBSCRIPTION £6.6.0. p.a.

Service to members includes free monthly issues of the *Federation Journal*

THE FEDERATION OF MASTER BUILDERS
33 John Street, Holborn, London, W.C.1
Tel.: CHANCERY 7583 (6 lines).

Please send particulars of the advantages of membership to

Kindly cut along dotted lines

24-6-60

THE ESSEX STEEL SCAFFOLDING Co LTD

SALES, HIRE
ERECTION
CRADLES

SMARTS LANE
LOUGHTON ESSEX
TEL: LOUGHTON 5022

FLOORINGS OF ALL KINDS

WOOD BLOCK-PARQUET CORK

SOLID T & G HARDWOOD STRIP

Stevens & Adams Ltd.
POINT PLEASANT · WANDSWORTH · S.W.18
TELEPHONE: VANdyke 6555/8

MULTIPLES ARE THE ANSWER
The perfect solution

A three-fold saving—of space, of material, and of erection time! And therefore a big saving of cost. Yes, these 'Alborough' Coal Bunker Multiples in prefabricated concrete are assuredly the perfect Fuel Storers for the Housing estate. Individual capacities range from 5 to 30 cwts., and Multiples can be of any number.

Concrete Coal Bunkers by

A.B.C.D. (Raynes Park) LTD.
34/35 Alpha Road, Surbiton, Surrey.
Tel: ELMbridge 6591/3

Alborough

HOWARD
& Co.
BUILDING CONTRACTORS

Established 1837

BROAD COURT, BOW STREET, W.C.2

TEMPLE BAR 3927/8, 5255

OFFICIAL ANNOUNCEMENTS

Rate : 30/- per inch, minimum ½-inch ; each additional line 2/- **Competitions Contracts Public Appointments**

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

FLINT
BOROUGH.

ERECTION OF 87 UNITY TRADITIONAL DWELLINGS, PEN GOCH, FLINT.

FIXED-PRICE TENDERS are invited for the ERECTION of the above houses, together with all necessary site works in connection therewith.

Copies of the Specification and Bills of Quantities may be obtained from, and the drawings and Conditions of Contract inspected at the office of the Borough Engineer and Surveyor, Municipal Offices, Earl-street, Flint, on payment of a refundable deposit of £3 3s.

Tenders for the work, on the prescribed form, must be delivered to the undersigned not later than 2.30 p.m. on MONDAY, 11th JULY, 1960, in a plain sealed envelope endorsed "Tender for 87 Houses, Pen Goch, Flint."

The Council do not bind themselves to accept the lowest or any tender.

WILLIAM McINTYRE,
Town Clerk.

Town Hall,
Flint.
14th June, 1960.

UXBRIDGE
BOROUGH.

TENDERS are invited from experienced firms for the PAINTING OF LAMP STANDARDS, BEACON POSTS AND SEWER VENT COLUMNS within the Borough.

The Specification, etc., may be obtained from the Borough Surveyor, 263 High-street, Uxbridge, Middlesex, on payment of £2 2s. 0d. returnable on receipt of a bona fide Tender.

Tenders must be returned to the undersigned in a sealed envelope endorsed "Painting Contract—Public Lighting" by NOON THURSDAY, 7th JULY, 1960.

E. RONALD WEST,
Town Clerk.

Council Offices,
265 High-street,
Uxbridge,
Middlesex.

SOUTHEND-ON-SEA.
COUNTY BOROUGH.

PROPOSED EXTENSIONS AT EASTWOOD HIGH SCHOOL FOR GIRLS, RAYLEIGH-ROAD, EASTWOOD.

TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect 30 Alexandra-street, Southend-on-Sea, not later than WEDNESDAY, 29th JUNE, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The Contract comprises the ERECTION OF A TWO-STOREY EXTENSION BLOCK OF ABOUT 5,600 FEET SUPER OF BRICK CONSTRUCTION WITH A REINFORCED CONCRETE FLOOR AND LIGHT ROOF DECKING AND WORKS INCIDENTAL THERETO.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is inticipated that these will be available at the beginning of September next. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

SOUTHEND-ON-SEA.
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

PROPOSED SPORTS PAVILION—JONES MEMORIAL RECREATION GROUND, EASTERN-AVENUE, SOUTHEND-ON-SEA.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect 30 Alexandra-street, Southend-on-Sea, not later than WEDNESDAY, 29th JUNE, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The Contract comprises the ERECTION OF A SINGLE STOREY SPORTS PAVILION OF ABOUT 3,000 FEET SUPER AND WORKS INCIDENTAL THERETO.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is inticipated that these will be available at the beginning of August next. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

SEVENOAKS
RURAL DISTRICT COUNCIL.

YEW TREE COTTAGES, HALSTEAD.

TENDERS are invited for the ERECTION OF THREE BLOCKS OF FOUR AGEING PERSONS FLATS and the DEMOLITION OF EIGHT COTTAGES.

The work is to be carried out in three stages.

Form of Tender and Bills of Quantities may be obtained from the Council's Engineer and Surveyor on payment of a deposit of Two Guineas. The deposit will be refunded after the delivery of a bona fide Tender, not subsequently withdrawn.

Tenders are to be returned to the undersigned by 10 a.m. on TUESDAY, 19th JULY, 1960.

The Drawings and Conditions of Contract may be inspected at the office of the Engineer and Surveyor during normal office hours.

The Council does not bind itself to accept the lowest or any Tender.

B. H. EDWARDS,
Clerk to the Council.

"Inglewood,"
Oak Hill-road,
Sevenoaks,
Kent.
10th June, 1960.

EALING
BOROUGH.

CONSTRUCTION OF EIGHT FLATS, WINDSOR-ROAD, W.5.

Forms of TENDER obtainable from Borough Surveyor, Town Hall, W.5, upon payment of deposit of £5 returnable on receipt of bona fide Tender, addressed to Town Clerk, Town Hall, Ealing, W.5. Closing date 9 a.m., 21st JULY, 1960.

STOCKTON-ON-TEES
BOROUGH.

COMMITTEE FOR EDUCATION.
3 F.E. SECONDARY MODERN SCHOOL FOR GIRLS, HARDWICK.

TENDERS are invited for the following :—

(a) The SUPPLY, DELIVERY AND FIXING OF METAL WINDOWS AND CURTAIN WALLING.
(b) The INSTALLATION OF CENTRAL HEATING, PLUMBING, HOT AND COLD AND DOMESTIC WATER SERVICES.
(c) The SUPPLY AND DELIVERY OF SANITARY APPLIANCES.
(d) The INSTALLATION OF ELECTRIC LIGHTING AND POWER SERVICES.
(e) The SUPPLY AND DELIVERY OF LIGHTING FITTINGS.
(f) The SUPPLY, DELIVERY AND FIXING OF WOOD BLOCK, THERMOPLASTIC, LINOLEUM AND CORK TILE FLOOR FINISHES.
(g) The SUPPLY, DELIVERY AND FIXING OF SUSPENDED CEILINGS.
(h) The PREPARATION OF PLAYING FIELDS, INCLUDING SEEDING AND PLANTING.

Firms wishing to tender should submit their names and details of work carried out to the Borough Architect, 28 The Square, Stockton-on-Tees, not later than WEDNESDAY, the 6th JULY, 1960.

JOHN B. HAWORTH,
Town Clerk.

Barclays Bank Chambers,
49 High-street,
Stockton-on-Tees.

BIRMINGHAM CITY

TO BUILDING CONTRACTORS.
CONTRACT 715.
14 ONE- AND TWO-STOREY DWELLINGS,
WOODCOCK-LANE, NORTHFIELD.
CONTRACT T.50/17.
TENANTS' MEETING ROOM,
HOLLOWAY, LEY HILL ESTATE, NORTHFIELD.
CONTRACT 711A.
SINGLE-STOREY SHOP,
MILLPOOL HILL ESTATE, WARSTOCK.

The House Building Committee invite FIRM-PRICE TENDERS for the ERECTION of the above.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each contract at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 28th JUNE, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona fide tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 noon on THURSDAY, the 28th JULY, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

HASTINGS
COUNTY BOROUGH.

ST. PAUL'S PRIMARY SCHOOL, HORNTYE-ROAD, ST. LEONARDS-ON-SEA.

Electrical Contractors desirous of TENDERING for the ELECTRICAL INSTALLATION AT THE ABOVE are invited to submit their names to E. O. Baxter, M.Eng., A.M.I.C.E., Borough Engineer, 37 Wellington-square, Hastings, together with a deposit of three guineas (refundable on receipt of a bona fide Tender) not later than 12 NOON on THURSDAY, 7th JULY, 1960.

Tender documents will be forwarded to applicants immediately they become available.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

LISKEARD
BOROUGH.

The Borough Council of Liskeard propose to BUILD 66 HOUSES, 15 BUNGALOWS AND 30 GARAGES etc., as the second stage of development of the Housing Estate at Lake-lane.

Contractors who wish to be considered for inclusion in a list of selected TENDERERS for the above Dwellings, etc., together with Road Works, Drainage and other Site Works, are invited to send their names to:—

G. R. Vaughan Ellis, A.R.I.B.A., Chartered Architect, National Provincial Bank Building, Trehawke House, Liskeard, Cornwall, by not later than 11th JULY, 1960.

Such applications are to be accompanied by brief details of works of a similar nature of which the Contractors have had adequate experience in the past.

Contractors to be invited to Tender will be selected by the Council who may add others.

R. SCARD MORGAN,
Town Clerk and Solicitor.

LEICESTER CITY.
EDUCATION COMMITTEE.

EXTENSIONS TO COLLEGE OF ART AND TECHNOLOGY, PHASE I.

Contractors with first-class organisational ability and experience in the handling of large contracts where time is an important factor, who wish to TENDER for PHASE 1 of MAJOR EXTENSIONS to the College of Art and Technology, Leicester (approximately 63,000 sq. ft. mainly in C.L.A.S.P. construction), are invited to inspect drawings, etc., at my office, and to submit their names not later than 30th JUNE, 1960, together with particulars of similar sized contracts previously undertaken.

Bills of Quantities will be available by 14th JULY, 1960, and Tenders will be due on 16th AUGUST, 1960.

J. H. LLOYD OWEN,
City Architect.

10 Loseby-lane,
Leicester.

INDEPENDENT
TELEVISION AUTHORITY.

NEW TRANSMITTING STATIONS.
MONGOUR, KINCARDINE (Nr. ABERDEEN).
ROSKILL, ROSS AND CROMARTY (BLACK ISLE).

Contractors possessing the necessary organisation and experience to carry out either or both of the above projects are asked to signify their willingness to TENDER for the work to the Architects, Messrs. E. R. Collister and Associates, 70 Victoria-street, London, S.W.1, who will prepare a panel from the list of contractors who apply.

The scope of the work is approximately as follows:

Mongour — BUILDING £40,000; APPROACH ROAD £15,000.
Roskill — BUILDING AND APPROACH ROAD £50,000.

The successful tenderer will be appointed as the Principal Contractor and will be required to assume responsibility for all trades.

Tenders will be required to be submitted on a fixed price basis.

BINGLEY
URBAN DISTRICT COUNCIL.

ERECTION OF 36 FLATS AT POPLAR HOUSE, BRADFORD-ROAD, BINGLEY.

All Trades Tenders are invited for the ERECTION AND COMPLETION OF 27 BEDSITTING FLATS, EIGHT ONE-BEDROOM FLATS, ONE WARDEN'S FLAT, in two two-storey blocks, TOGETHER WITH OUTBUILDINGS, ROADS, DRAINAGE AND SERVICES.

Drawings may be seen and forms of Tender, specifications and Bills of Quantities may be obtained from the Surveyor and Architect, Town Hall, Bingley, on payment of two guineas which will be returned on receipt of a bona fide Tender not subsequently withdrawn. Cheques should be made payable to the Bingley Urban District Council.

Tenders, in sealed envelopes endorsed "Poplar House Flats" and not bearing any mark indicating the sender, should be delivered to the undersigned, not later than NOON on MONDAY, 11th JULY 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. M. DUNWELL,
Clerk of the Council.

WARWICK
BOROUGH.

EAST END CLEARANCE AREA, PHASE I.
ERECTION OF HOUSES AND BUNGALOWS.

TENDERS are invited for the CONSTRUCTION of:

13 SINGLE-BEDROOM TERRACED BUNGALOWS IN 4 BLOCKS.
14 3 - BEDROOM TERRACED HOUSES IN 4 BLOCKS.

Approximately 340 yd of 16 ft. carriageway, ancillary drainage, site works, 6 garages and demolition of existing buildings.

Copies of the Bills of Quantities, General Conditions, and Form of Tender may be obtained from the Borough Engineer on payment of £2 2s. deposit, which will be refunded upon receipt of a bona fide tender. Drawings may be seen at the Office of the Borough Engineer during normal working hours.

Tenders in plain sealed envelopes endorsed "East End Clearance Area—Phase I" must be delivered to the Borough Engineer and Surveyor, 23 Jury-street, Warwick, not later than first post on the 5th JULY, 1960.

H. B. DOLPHIN, M.C., T.D., M.A.,
Town Clerk.

9th June, 1960.

ASHTON-UNDER-LYNE
BOROUGH.

BOROUGH SURVEYOR'S DEPARTMENT.

FIRM-PRICE TENDERS are invited for the ERECTION of a THREE-STOREY BLOCK OF SIX FLATS AND A THREE-STOREY BLOCK OF SIX SHOPS AND TWELVE FLATS, together with a service area and ELEVEN GARAGES on the Hazelhurst Estate.

Bills of Quantities, Specification and Form of Tender may be obtained from the Borough Surveyor, Municipal Offices, Ashton-under-Lyne, on payment of a deposit of £3 3s., which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders, sealed in the envelope provided, must be forwarded to the undersigned so as to be received not later than Noon on THURSDAY, 14th JULY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. A. MALONE,
Town Clerk.

Town Hall,
Ashton-under-Lyne.
14th June, 1960.

NORTH RIDING
EDUCATION COMMITTEE.

BILLS OF QUANTITIES, etc., for ALTERATIONS AND EXTENSIONS to NORTH RIDING TRAINING COLLEGE, SCARBOROUGH, obtainable from me. Plans may be seen at the College or at the County Hall, Northallerton. Completed Tenders in official envelope must arrive not later than FRIDAY, 22nd JULY, 1960, with postmark not later than 21st JULY, 1960. Envelope must be sealed and have no mark indicating tenderer. Lowest or any Tender not necessarily accepted.

F. BARRACLOUGH.

County Hall,
Northallerton.

WANDSWORTH
METROPOLITAN BOROUGH.

GARAGES AT CLAPHAM.

Contractors wishing to TENDER for ERECTION OF 16 LOCK-UP GARAGES in four groups at the Notre Dame housing estate should submit names to me by 1st JULY, 1960, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at Borough Engineer and Architect's Department at this address.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth,
S.W.18.

ASHBY WOULDS
URBAN DISTRICT COUNCIL.

REPAIR, REINSTATEMENT AND RECONSTRUCTION OF HOUSES DAMAGED BY MINING SUBSIDENCE.

TENDERS are invited for the REPAIR, REINSTATEMENT AND RECONSTRUCTION OF HOUSES DAMAGED BY MINING SUBSIDENCE, including construction of new walls and partitions, complete replastering internally and external rendering with subsequent redecoration. Contractors wishing to tender should write to the Council's Architects, Messrs. Pick, Everard, Keay and Gimson, of 6 Millstone-lane, Leicester, for specification and bills of quantities enclosing cheque for £2 2s., returnable on receipt of a bona fide tender.

Tenders must be received by the undersigned not later than 12 noon on FRIDAY, the 15th JULY, 1960, in a plain sealed envelope marked "Tender—M.S Repairs."

The Council do not bind themselves to accept the lowest or any tender.

W. JONES,
Clerk of the Council.

Council Offices,
Ashby-road,
Moira,
Nr. Burton-on-Trent.
16th June, 1960.

HEMEL HEMPSTEAD
BOROUGH.

PUBLIC CONVENIENCE,
STONEYCROFT.

TENDERS are invited for the ERECTION OF A PUBLIC CONVENIENCE adjacent to the shopping centre, Stoneycroft, Warners End, Hemel Hempstead.

Tender documents and drawings may be obtained from A. H. Turner, A.M.I.C.E., Borough Engineer, High-street, Hemel Hempstead, at whose office the Conditions of Contract may be inspected during normal working hours. Tenders in plain sealed envelopes bearing no indication of the sender and endorsed "Public Convenience" are to be delivered to me not later than 12 noon on MONDAY, the 18th JULY, 1960.

The Corporation do not bind themselves to accept the lowest or any tender.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
Hemel Hempstead.
June, 1960.

LEICESTER CITY.

RE-ERECTION OF DRESSING CUBICLES, AYLESTONE BATHS, KNIGHTON FIELDS ROAD WEST, LEICESTER.

TENDERS are invited from specialist firms for the REMOVAL OF NO. 38 EXISTING DRESSING CUBICLES and the PROVISION AND ERECTION OF NO. 38 NEW CUBICLES. The cubicles are to be constructed of materials which are resistant to corrosion, and within reasonable limits of damage by cutting.

Full details and forms of tender are obtainable from the undersigned on receipt of £1 1s., which will be refunded upon submission of a bona fide tender.

Tenders to be returned in the formal envelope by 4.30 p.m. on THURSDAY, 4th AUGUST, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

STAINES
URBAN DISTRICT COUNCIL.

PROPOSED INSTALLATION OF FIRE APPLIANCES TO CONFORM TO STAINES NO. 1 SMOKE CONTROL ORDER 1960 AT 170 HOUSES—VIOLA-AVENUE, STANWELL, MIDDLESEX.

TENDERS are invited from suitably qualified contractors for the INSTALLATION OF FIRE APPLIANCES INITIALLY TO 170 HOUSES to conform to the Staines No. 1 Smoke Control Area at Stanwell. This is expected to be extended at a later date by a further 68 dwellings *not* of similar type.

Drawing with Specification notes and Form of Tender may be obtained on application to the Engineer and Surveyor, Shortwood House, 240 London-road, Staines, Middlesex, on payment of a deposit of £2 2s. which will be returned on receipt of a bona fide Tender, not subsequently withdrawn.

Conditions of contract may be inspected at the office of the Engineer and Surveyor by all persons who have made the necessary application to tender.

Tenders on the prescribed form in the envelope provided must be delivered at the office of the undersigned not later than 5 p.m. on FRIDAY, 22nd JULY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. ENTWISTLE,
Clerk of the Council.

"Elmsleigh,"
73 High-street,
Staines,
Middlesex.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.
PROPOSED STAFF TOILET AND HANDICRAFT ROOM AT WESTCLIFF HIGH SCHOOL FOR GIRLS.

TENDERS are invited for the performance of the works in connection with PROPOSED ERECTION OF STAFF TOILETS AND HANDICRAFT ROOM and works incidental thereto at Westcliff High School for Girls.

R.I.B.A. Conditions of Contract may be inspected, and copies of Form of Tender, Specification and Drawings obtained on and after MONDAY, 27th JUNE, 1960, on application to the Borough Architect, 30 Alexandra-street, Southend-on-Sea.

Sealed tenders addressed to the undersigned and endorsed "Proposed Staff Toilets and Handicraft Room, Westcliff High School for Girls," are to be delivered to this office before 3 p.m. on WEDNESDAY, 13th JULY, 1960, and no tender received thereafter will be considered.

No tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

PROPOSED ERECTION OF ONE THREE-STOREY BLOCK OF FLATS AND MAISONETTES, MENDIP-CRESCENT, WESTCLIFF-ON-SEA.
TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than MONDAY, 11th JULY, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The Contract comprises the ERECTION OF ONE THREE-STOREY BLOCK COMPRISING THREE ONE-BEDROOM FLATS and THREE TWO-BEDROOM MAISONETTES, OF BRICK CONSTRUCTION WITH TILED ROOFS and WORKS INCIDENTAL THERETO.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit the Drawings, Specification and Form of Tender will be forwarded, and it is anticipated that these will be available mid-July, 1960. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender or the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

BUILDING CONTRACTS.

The Board proposes to carry out the undermentioned schemes at Winterton Hospital, near Sedgefield, County Durham.

(a) MODERNISING OF NURSES HOME.

The building is of four-storey construction and contains an approximate floor area of 12,600 square feet.

(b) ALTERATIONS TO PROVIDE GYMNASIUM AND WORKSHOPS.

The building is of single-storey construction and will contain an approximate floor area of 4,400 square feet.

Tender documents will be ready for issue to Contractors during July, 1960, and it is expected that it will be possible for building operations to commence in September, 1960.

The projects have been planned and will be carried out under the direction of Messrs. Cordingley and McIntyre, Chartered Architects of Owengate, Durham, in conjunction with the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.

Contractors wishing to Tender for either or both of these schemes are asked to notify the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, by not later than 30th JUNE, 1960, stating clearly for which scheme or schemes they wish to Tender. A limited number of Contractors may be selected and invited to Tender, and the lowest or any Tender will not necessarily be accepted.

REIGATE
BOROUGH.

1 BLOCK OF 16 MAISONETTES WITH STORES UNDER AND 1 BLOCK OF 10 MAISONETTES, THE DOME ESTATE (NORTH-STREET), REDHILL.
FIXED-PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Form of Tender, Specification, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. Closing date for receipt of Tenders, noon, 21st JULY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

MERTHYR TYDFIL
COUNTY BOROUGH.

TENDERS FOR ERECTION OF NEW OMNIBUS GARAGE.
STAGE II.

Applications are invited from Building Contractors wishing to tender for the above. The work comprises the following:—

CONSTRUCTION OF NEW SINGLE STOREY WORKS BUILDING of 24,000 sq. ft. approx., together with BOILER HOUSE AND ALL SERVICES, DRAINS AND PATHS AND COMPLETION OF YARDS.

Applications to tender must reach me by TUESDAY, 12th JULY, and must be accompanied by a deposit of £3 3s. returnable on receipt of a bona fide Tender. Cheques to be made payable to Merthyr Tydfil Corporation.

When tendering the Tenders must be in plain sealed envelopes marked "New Omnibus Garage—Stage II." The Council do not bind themselves to accept the lowest or any Tender and will not defray any expenses incurred by those tendering.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

TYNEMOUTH VICTORIA JUBILEE INFIRMARY, NORTH SHIELDS.

The Board proposes to carry out ALTERATIONS AND EXTENSIONS TO A FORMER LAUNDRY BUILDING TO PROVIDE AN X-RAY DEPARTMENT.

The total floor area of this single-storey building will be approximately 3,450 square feet.

Tender documents will be ready for issue to contractors during JULY, 1960, and it is expected that it will be possible for the building operations to commence in SEPTEMBER, 1960.

The project has been planned by and will be carried out under the direction of Messrs. George H. Gray and Partners, Chartered Architects, of 52 Camden-street, North Shields, in conjunction with the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.

Contractors wishing to TENDER for this work are asked to submit their names to the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 30th JUNE, 1960. A limited number of Contractors may be selected and asked to tender, but the lowest or any Tender will not necessarily be accepted.

OUNDLE AND THRAPSTON
RURAL DISTRICT COUNCIL.

TENDERS for SITEWORKS INCLUDING CONSTRUCTION OF CARRIAGEWAY AND LAYING OF GENERAL SERVICES ENTAILING THE CONSTRUCTION OF SEPTIC TANK, THE ERECTION OF FIRST INSTALMENT OF 20 DWELLINGS AND SUITE OF 9 LOCK-UP GARAGES at Collyweston.

The Council invite contractors wishing to Tender for the above-mentioned works to notify Mr. H. G. Kenyon, L.R.I.B.A., Architect, Council Offices, Midland-road, Thrapston, Kettering, by SATURDAY, 9th JULY, 1960. A deposit of Three Guineas should accompany the application which will be refunded on receipt of a bona fide Tender and the return of all documents.

Specifications and Bills of Quantities will be despatched after the above-mentioned date and Tenders must be received at a date to be specified by the Architect with the despatch of the documents. At least 14 days will be allowed for tendering.

The Council do not bind themselves to accept the lowest or any Tender.

H. H. HASSALL,
Clerk of the Council.

Council Offices,
Midland-road,
Thrapston,
Kettering.

Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

REX

A complete range . . . 34T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request*

BLAW KNOX LIMITED Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

FOR 'HILLTOP' . . . 'the most imaginative experiment in licensed trade history'

the architects used **NAIRN** Vinyl tiles

The cafeteria at 'Hilltop', combined public house and community-centre at Hatfield New Town, Herts. The architects were Brett, Boyd and Bosanquet; the floorcovering which they specified was Nairn Vinyl tiles. Interior designer: HULME CHADWICK. Flooring contractors: S. H. WARE & CO. LTD.

MODERN ARCHITECTS, MODERN FLOORING

"The most imaginative experiment in licensed trade history." This was how the *Morning Advertiser* described 'Hilltop'. This modern project is another example of the fine use which up-to-date architects have made of Nairn Vinyl tiles.

What is 'Hilltop'?

A gift from two breweries (Guinness and McMullen's) to Hatfield, 'Hilltop' is an experiment in licensed house design. It combines, under one roof, a public house, an assembly hall-cum-theatre, a health clinic, two committee rooms, an unlicensed café with its kitchen, and the manager's private flat. A paved terrace runs around the licensed house.

How Nairn's twin range of tiles offers inexpensive colour schemes

Nairn make two ranges of 3.2 mm tile for commercial use: the contractors' basic A range, and the architectural design B range. The five colours in the range are those in greatest demand by architects, and Nairn make these tiles specially for contractors who want to lay floors at highly competitive cost. Moreover, by including a few tiles from the lighter, more expensive B range, you can create an attractive, imaginative scheme—still at low cost.

Twelve-inch square tiles

Besides the standard 9" x 9" size in 2.0 and 3.2 mm gauge, you can get Nairn tiles in all colours of the 3.2 mm range in a 12" x 12" size. This is the most economic size for laying and is particularly suited to the scale of larger installations.

NAIRN Technical Advisory Service

Technical representatives at Nairn area offices are ready and willing to give you advice and information on anything and everything about floorcovering services. Just contact your nearest office:

MICHAEL NAIRN & CO LTD
P.O. Box 1, Kirkcaldy, Scotland. Kirkcaldy 2011 (10 lines).
LONDON EC1: *131 Aldersgate Street. Monarch 3211 (8 lines).*
BIRMINGHAM 2: *65 Temple Row. Midland 5989 (2 lines).*
BRISTOL 4: *349 Bath Road, Bristol 77840.*
MANCHESTER 1: *4 Canal Street, Minshull Street. Central 1417 (3 lines).*
GLASGOW C5: *113 Centre Street. South 1011 (3 lines).*
NEWCASTLE-ON-TYNE: *41 Grainger Street, Newcastle 22807.*

No Plasmor for the Pharaohs !

Master builders of the past had to do without PLASMOR — not so modern architects and builders. For them, PLASMOR proves the perfect plasticiser for every building development. Small wonder, PLASMOR is backed by a reputation as solid as the walls it helps to build . . . Lillington's 50-year-old reputation for products that stand the test of time.

Only
LILLINGTON'S PLASMOR
ensures these advantages

- Eliminates lime—saves cement.
- Makes mortar spread like butter.
- Reduces shrinkage cracks.
- Improves adhesion.
- Lowers costs—secures your contract.

WRITE FOR BOOKLET M
GIVING FULL DETAILS

ALL OUR PRODUCTS SUPPLIED IN FREE CONTAINERS

LILLINGTONS
Plasmor

GEORGE LILLINGTON & COMPANY LIMITED
Willow Lane, Mitcham, Surrey
Tel: Mitcham 1066
For Scotland: 42 High Street, Greenock

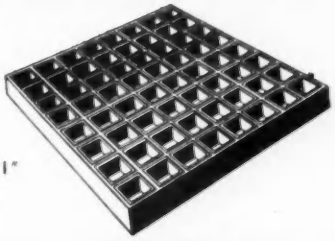
AP 356

WEAR and TEAR on Industrial Floors

The ever-increasing use of all types of Fork Lift Trucks in Industry calls for a heavy duty flooring with a surface which cannot be obtained with Portland Cement based flooring. Our various types of Cast Iron Plates have been specially designed to withstand modern Trucking and our Foundry is entirely devoted to the production of these special types of Flooring, enabling us to quote very competitively.

CAST IRON GRID PAVING

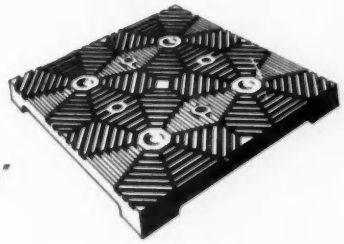
The grids are laid on a concrete base, the openings afterwards being filled with a specially hardened compound. These grids can also be pre-filled with this compound (coloured if required). To be considered for replacements where time is a limiting factor.



12" × 12" × 1"
12 lbs. weight

SERRATED CAST IRON PAVING

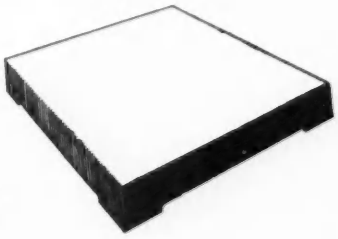
Designed with a slip-resistant surface in all directions and provides a floor finish where maintenance is reduced to an absolute minimum.



12" × 12" × 1"
14 lbs. weight

PLAIN TOP CAST IRON PAVING

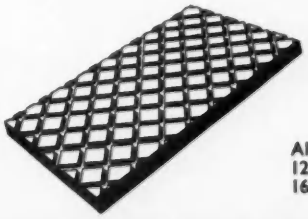
These plates are suitable for use where a heavy duty paving is required and where contact is made with chemicals which attack ordinary Portland Cement based paving.



12" × 12" × 1⅝"
16½ lbs. weight

CHEQUER PLATE PAVING

In cast iron plates of a heavy duty type suitable for floors where contact is made with chemicals which attack Portland Cement. The advantage with these plates is that only an inch is required for plate and bedding.



12" × 6" × ⅛"
7 lbs. weight

Also in
12" × 12" × ⅛"
16 lbs. weight

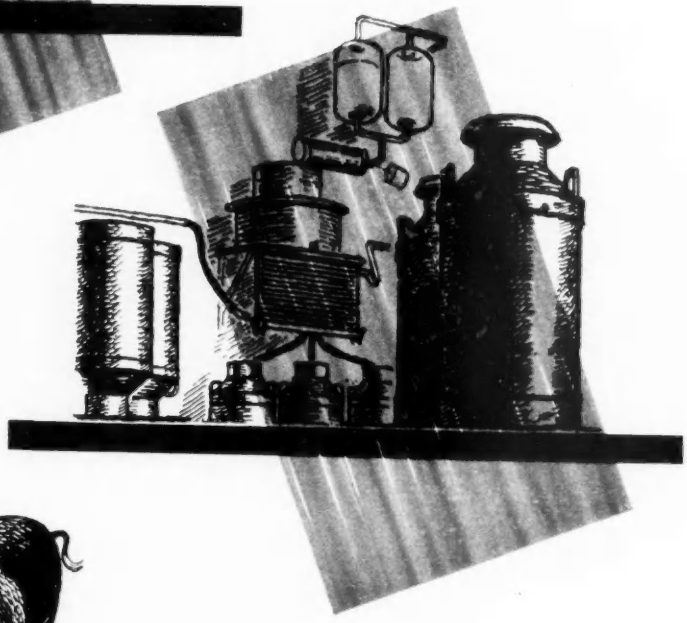
Extensive Stocks
For
Immediate Delivery
Telephone: BERMONDSEY 3237

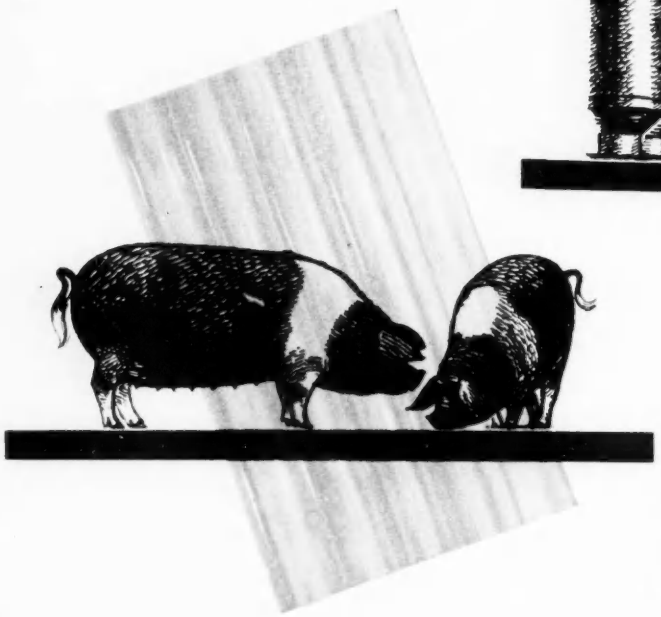
TILE FLOORS
(INDUSTRIAL) LIMITED
YEOMAN STREET
LONDON, S.E.8

Unilux – makes light work on farms and estates

It gives in one sheet weatherproof cover and natural light for farm buildings, garages and sheds. **UNILUX** is light in weight, giving 85% light transmission. **UNILUX** is available in many attractive colours and can be supplied to match the profile of any standard roofing.

UNILUX is fire-retardant, durable, strong, easy to work and easy to fix. It is unaffected by weather and climatic conditions and needs no maintenance.





UNILUX is made by a member-company of the U.A.M. Group—a name synonymous with "better building". The "**U.A.M. GROUP INFORMATION BULLETIN**" is published every two months to keep you informed of the Group's activities. May we add your name to our Mailing List?

Unilux the Best in Translucent Sheeting

U.A.M. PLASTICS LIMITED · TOLPITS · WATFORD · HERTFORDSHIRE · TEL: WATFORD 34551

A Member of the UAM Group of Companies

HAMPSHIRE
COUNTY COUNCIL.

WINCHESTER, COUNTY SECONDARY BOYS' SCHOOL EXTENSIONS.

TENDERS are invited from suitable firms for the ERECTION OF THREE ADDITIONAL TEACHING BLOCKS, in traditional construction, and having a floor area of approximately 14,000 sq. ft.

Applications for Tender documents, with a deposit of two guineas payable by cheque to the County Treasurer, should be sent to the County Architect, The Castle, Winchester, by 4th JULY. The deposit will be refunded on receipt of a bona fide Tender or the return of the documents.

Tender documents will be available about 12th JULY and four weeks will be allowed for tendering. The County Council do not bind themselves to accept the lowest or any Tender.

G. A. WHEATLEY,
Clerk of the County Council.

DURHAM
COUNTY COUNCIL.

TENDERS invited:

New Brancepeth Nursery School—CONVERSION OF INFANT SCHOOL PREMISES.

School of Agriculture, Houghall—(a) SUPPLY AND ERECTION OF GREENHOUSES; (b) BUILDER'S WORK FOR HORTICULTURAL DEMONSTRATION CENTRE.

Application for further details to County Architect, South-street, Durham, not later than 6th JULY, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

WALSALL
COUNTY BOROUGH

EDUCATION COMMITTEE.

TENDERS are invited for the COMPLETION OF A SECONDARY SCHOOL ASSOCIATED WORKS at Bloxwich, at an estimated cost of approximately £147,000. The buildings will be load bearing brick and steel frame construction with concrete floors and timber roofs.

Interested contractors are asked to submit their names to the undersigned, within seven days of the appearance of this advertisement, stating that they are able and willing to submit a bona fide tender for a contract of this size and can carry out the work expeditiously, together with brief information regarding work previously carried out of a similar size and nature.

The Committee will, in consultation with the Architects, Richard Sheppard, Robson and Partners, approve a short list of contractors who will receive the Bills of Quantities and drawings and will be asked to submit their tenders with the intention of starting on the site in SEPTEMBER, 1960.

V. MILLSON,
Director of Education.

Education Offices,
Darwall-street,
Walsall.

ESSEX
COUNTY COUNCIL.

ERECTION OF NEW FARMBUILDINGS AND IMPROVEMENTS TO TWO HOUSES AT BUTTS GREEN FARM, CLAVERING.

The Smallholdings Committeee invite firm price TENDERS from Building Contractors with suitable organisation for the ERECTION OF NEW FARMBUILDINGS and SANITARY IMPROVEMENTS TO TWO SMALLHOLDERS' HOUSES at Butts Green Farm, Clavering, near Saffron Walden.

Bills of Quantities for (a) the new Farmbuildings, and (b) Plans and Specifications for the improvements to the houses may be obtained from the County Land Agent and Valuer, 69 Duke-street, Chelmsford.

No Tender will be considered unless contained in the envelope provided and delivered to the undersigned not later than 12 NOON on MONDAY, 18th JULY, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

CHRISTIAN BERRIDGE,
Clerk of the County Council.

County Hall,
Chelmsford.
June, 1960.

WOKINGHAM
BOROUGH.

ERECTION OF DWELLINGS.

TENDERS are invited for the ERECTION OF 21 DWELLINGS in traditional construction on Commons-road Housing Site.

Plans, specifications, etc., may be obtained from the Borough Surveyor, Town Hall, Wokingham, on payment of deposit of £2 2s., returnable on submission of bona fide Tender.

Tenders must be sent to me, in the envelope provided, not later than 22nd JULY, 1960.

L. GODDARD SMALLEY,
Town Clerk.

Town Hall,
Wokingham,
Berks.
17th June, 1960.

CARSHALTON AND MERTON AND MORDEN
JOINT CEMETERY BOARD.

GREENHOUSE.

TENDERS are invited for the ERECTION OF A CEDARWOOD GREENHOUSE, approximately 50 ft. long, at the Board's Cemetery, Garth-road, Morden.

Form of Tender, Specification and Drawings may be obtained and Conditions of Contract inspected at the office of the Joint Surveyor, Morden Hall, London, S.W.19, during usual office hours.

Sealed Tenders in the envelope provided, bearing no name or mark indicating the sender, must be delivered to us not later than 10 a.m. on FRIDAY, 15th JULY, 1960, endorsed "Greenhouse."

SYDNEY ASTIN,
C. H. DURRANT,
Joint Clerks of the Board.

Morden Hall,
S.W.19.

CRAWLEY
DEVELOPMENT CORPORATION

invites applications from Contractors wishing to be considered for tendering upon Bills of Quantities for the erection of dwellings (including two-storey flats) and lock-up garages on various infill sites in the New Town. The smallest site is likely to have 6 houses and the largest 34 houses and flats, each site having a block of lock-up garages. Contractors are requested to indicate both the smallest and largest number of dwellings for which they would be prepared to tender. Applications to Chief Architect, Broadfield, Crawley, Sussex, by 2nd JULY, 1960.

HUNTINGDONSHIRE
HEALTH COMMITTEE.

PROPOSED CLINIC AND ADMINISTRATIVE BLOCK, STANGROUND.

Contractors desirous of submitting a FIXED-PRICE TENDER for the above project are invited to submit their names to S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by not later than 12 noon on FRIDAY, 8th JULY, 1960.

From the names submitted a panel of contractors will be selected to whom tender documents will be sent. The closing date for tenders will be 12 noon on or about 12th AUGUST, 1960.

The building will be of single storey with load bearing brick walls, concrete strip foundations and flat roof of timber construction.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.
23rd June, 1960.

ESSEX
COUNTY COUNCIL.

(1) BROOMFIELD BRANCH LIBRARY.
(2) BELHUS PARK COMMUNITY ASSOCIATION HALL, AVELEY.

Contractors wishing to submit FIRM PRICE TENDERS for the ERECTION OF THE ABOVE should forward their names, from which panels will be chosen and provided with tender documents.

(1) This contract will be mainly timber construction (*not* prefabricated hutting) on concrete foundations, estimated cost £5,500.

(2) A small public hall and ancillary accommodation in brick construction with timber roof on steel beams, estimated cost £9,500.

Separate applications to reach the undersigned not later than 2nd JULY, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

TIPTON
BOROUGH.

TENDER FOR SECTIONAL MORTUARY CHILL ROOM.

TENDERS are invited for the SUPPLY AND INSTALLATION OF A SECTIONAL MORTUARY CHILL ROOM. Specifications may be obtained on application to the Borough Engineer and Surveyor, Municipal Buildings, Sedgley-road West, Tipton.

Tenders in plain sealed envelopes endorsed "Tender for Mortuary Chill Room" and not bearing any name or mark to indicate the sender must reach the undersigned on or before the 15th JULY, 1960.

K. W. MADIN,
Town Clerk.

Municipal Buildings,
Sedgley-road West,
Tipton.

READING
COUNTY BOROUGH.

FIRM PRICE TENDERS are invited for the EXTERNAL AND PART INTERNAL REDECORATION of the Reading Technical College. General Conditions may be inspected and Specification obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by NOON, TUESDAY, 12th JULY, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

LUTON
BOROUGH.

(1) Building Contractors wishing to TENDER on a fixed price basis for the ERECTION and COMPLETION of TEN OLD PEOPLE'S DWELLINGS in one block at Muswell-close, Runfold Estate, should submit their names to the Borough Architect, Town Hall, Luton, by MONDAY, 4th JULY, 1960.

(2) FIXED-PRICE TENDERS invited for the ERECTION and COMPLETION of CARETAKERS' HOUSES at:

(a) Stopsley C.S.M. School;
(b) St. Margaret of Scotland R.C. School.

Documents from Borough Architect, Town Hall, Luton. Tenders to Town Clerk by noon on THURSDAY, 21st JULY, 1960.

FAVERSHAM
BOROUGH.

ERECTION OF 26 HOUSES. CONTRACT 6A.

TENDERS are invited for the ERECTION OF TWENTY-SIX HOUSES in connection with the Upper Brents Redevelopment—Phase 1.

Plans and Conditions of Contract may be inspected at the office of the Borough Surveyor, and the Specification, Bills of Quantities, and Form of Tender obtained on payment of a deposit of two guineas, which will be refunded on return of all documents accompanied by a bona fide tender.

Tenders, enclosed in a plain sealed envelope bearing no indication of the name of the Tenderer, and endorsed "Tender for 26 houses," to be delivered to the undersigned not later than noon on MONDAY, 25th JULY, 1960.

F. G. BISHOP,
Town Clerk.

Municipal Offices,
Faversham,
Kent.
20th June, 1960.

GRANTHAM
BOROUGH.

FIXED-PRICE TENDERS are invited for the ERECTION OF 33 BUNGALOWS AND 60 HOUSES. Plans may be inspected and bills of quantities obtained, on deposit of £2 2s., from Borough Surveyor's Office. Tenders to be submitted in plain sealed envelopes endorsed "Tender for Scheme 57" to me by SATURDAY, 16th JULY.

JOHN F. GUILE,
Town Clerk.

Guildhall,
Grantham.

LEEDS
REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED-PRICE TENDERS are invited for carrying out ADAPTATION OF ROCKINGHAM HOUSE FOR COMBINED NURSE-TRAINING SCHOOL at the County Hospital, York.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on TUESDAY, 28th JUNE, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board (or at the office of Messrs. Colin Rowntree and Partners, Chartered Architects, 120 The Mount, York).

Three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any tender.

Wm. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

MAIDENHEAD
BOROUGH.

COX GREEN ESTATE—CONTRACT 5L.

The Council invites firm price TENDERS for the ERECTION OF 66 HOUSES AND 12 GARAGES, TOGETHER WITH ALL NECESSARY DRAINAGE AND SITEWORKS.

Bills of Quantities and Form of Tender may be obtained from and Drawings and Conditions of Contract may be seen at the office of the Borough Engineer and Surveyor, 14, Craufurd Rise, Maidenhead, on payment of Two Guineas deposit which will be refunded on receipt of a bona fide Tender and the return of all documents.

Tenders on the prescribed form and in plain sealed envelopes (provided) endorsed "Contract 5L" and bearing no mark or indication of the sender must be delivered to me not later than FRIDAY, 22nd JULY, 1960. Priced Bills of Quantities must be returned in the envelope provided to the office of the Borough Engineer and Surveyor by the same date. These will be returned to the unsuccessful Tenderers.

The Council does not bind itself to accept the lowest or any Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead.
June, 1960.

HUNTINGDONSHIRE.
CHILDREN COMMITTEE.

FAMILY GROUP HOME, ST. NEOTS.

FIXED-PRICE TENDERS are invited for the ERECTION OF A FOUR-BEDROOMED FAMILY GROUP HOME of traditional construction, with load bearing brick walls and concrete strip foundations.

Drawings may be inspected and Bills of Quantities and Forms of Tender may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon.

Sealed Tenders in the endorsed envelope provided, with no other identification marks, must be delivered by 12 noon on MONDAY, 18th JULY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.
23rd June, 1960.

WALLASEY
COUNTY BOROUGH.

ERECTION OF WORKS DEPOT AND GARAGES, TOWN MEADOW-LANE, MORETON.

TENDERS, to reach the undersigned by 13th JULY, are invited for the abovementioned works. Bills of Quantities and Forms of Tender available from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.

Watch Committee invite Fixed Price Tenders for CONVERSION OF STABLE BLOCK at Kings Weston House, Bristol to SUB-DIVISIONAL POLICE STATION.

Contractors willing to submit Tenders based on Bill of Quantities apply to City Architect, Council House, Bristol, 1, by 4th JULY.

SOUTHAMPTON
COUNTY BOROUGH.

invites TENDERS—ERECTION OF BUILDINGS AND BOUNDARY WALLING, LAYING OF ROADWAYS, PAVINGS, SERVICES, etc., to new Central Waterworks Depot at Central Station Bridge, Southampton. Forms and particulars including Bill of Quantities from Borough Architect, on written application by 9th JULY, 1960.

R.I.B.A. Contract plus Supplementary Conditions available for inspection.

Tender to Town Clerk, Civic Centre, Southampton, by 10 a.m. 8th AUGUST, 1960.

WATFORD
BOROUGH.

EXTENSION TO PUBLIC LIBRARY.

TENDERS and proposals are invited for the following:—

1. REINFORCED CONCRETE.
2. HEATING AND VENTILATING.

Applications for documents must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on 4th JULY, 1960.

The successful tenderers will be nominated sub-contractors under a fixed price R.I.B.A. Building Contract.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.

TUNBRIDGE WELLS
ROYAL BOROUGH.

MONSON-ROAD BATHS.

TENDERS are invited for DEMOLITION AND CONSTRUCTION WORK at the above, including the lengthening of the main building, lengthening and deepening of the swimming bath, construction of new two-storey front, new boiler house, etc.

Applications for a form of Tender and Bills of Quantities should be made to the Borough Surveyor, Town Hall, Tunbridge Wells, accompanied by a deposit of two guineas. The General Conditions of Contract and drawings may be inspected at his office.

The latest time for the receipt of tenders will be 12 noon on 25th JULY, 1960.

M. J. H. GIRLING,
Town Clerk.

WATFORD
BOROUGH.

TENDERS are invited for the ERECTION OF 27 ELDERLY PERSONS' BUNGALOWS on the Meriden Estate, Watford.

Applications for documents, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender, not subsequently withdrawn must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, not later than 10 a.m. on MONDAY, the 27th JUNE, 1960. No tender will be considered unless upon the official form which must be sent to the undersigned in the envelope provided for the purpose not later than 2 p.m. on THURSDAY, 21st JULY, 1960.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.

FOUR AFRICAN HARDWOODS FOR JOINERY

BERLINIA—a pinkish colour with an unusual purplish stripe — a most attractive hardwood for furniture, fittings and panelling. Available in quarter sawn boards 1″—3″ thick, also in veneer.

DOUSSIE — considered one of the most stable of all hardwoods — in seasoning an average tangential shrinkage of only 1.5% occurs — compared with 2.5% for Teak and Afrormosia—up to 9.5% for European Beech. Doussie is therefore well suited for windows, frames, staircases, doors and exterior cladding, also for floors laid over underfloor heating systems. Available in 1″—3″ thick.

QUARTER SAWN NIGERIAN GOLDEN WALNUT—cut on the quarter from large selected logs, kilned and then re-cut into square edged boards producing a most attractive hardwood combining decorative interest with perfect reliability. Available 1″—3″ thick.

QUARTER SAWN SAPELE — produced in similar fashion, kiln dried, giving greatly improved reliability and a decorative effect comparable to veneer. Available in 1″—3″ thick.

SAMPLES ON REQUEST

JAMES LATHAM LIMITED

Manufacturers of **LATHAMCLAD** The perfect timber finish

LEESIDE WHARF, CLAPTON, LONDON, E.5

AMHERST 5533 (11 lines)

BY APPOINTMENT
TO HER MAJESTY THE QUEEN
WOOD MERCHANTS

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

SOUTHAMPTON
COUNTY BOROUGH.

Applications are invited for the following appointment:

ASSISTANT ARCHITECT, Grade A.P.T. IV, £1,065-£1,220. Applicants must hold the qualification A.R.I.B.A. and have had wide experience in housing design and construction, including multi-storey flats and shopping centres, in connection with redevelopment schemes in urban areas.

The appointment is subject to N.J.C. conditions of service. Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50. Application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by MONDAY, 4th JULY, 1960.

EAST ANGLIAN
REGIONAL HOSPITAL BOARD.

TEMPORARY CLERK OF WORKS for construction of New Admission Villa, etc., at Fulbourn Hospital, near Cambridge (approximate value £240,000), expected to take approximately 2 years to complete. Salary £800-£1,050 per annum.

Applicants must possess thorough knowledge of all aspects of building trade. Membership of Institute of Clerk of Works or possession of Clerk of Works Diploma of Association of Building Technicians an advantage. Applications stating age, qualifications, previous experience and names of 3 referees (2 of whom should be architects) to Secretary of Board, 117 Chesterton-road, Cambridge, by 4th JULY, 1960.

BARKING
CORPORATION.

DEPARTMENT OF THE BOROUGH ARCHITECT.
CLERK OF WORKS.
FOR GENERAL BUILDING WORK, GRADE A.P.T. II
(Salary Scale £765-£880 per annum plus London Weighting £40).

Applications, which should state age, experience, present and former employers, together with the names and addresses of two referees, should reach the undersigned not later than THURSDAY, 30th JUNE, 1960.

Membership of a recognised Clerks of Works Association or possession of a Clerk of Works Diploma (obtained by examination) of an approved technical association will be an advantage.

E. R. FARR,
Town Clerk.

Town Hall,
Barking,
Essex.

NORTH STAFFORDSHIRE
UNIVERSITY COLLEGE.

ASSISTANT ARCHITECT.
Scale: £765 x £25(1) x £30(3)—£880 p.a.

Applications are invited for the post of ASSISTANT ARCHITECT on Staff of Architect and Buildings Officer. Applicants should have passed Intermediate Examination of R.I.B.A. and be studying for Final. Good general experience in design and construction essential. Duties may include work on buildings for teaching and research, students' hostels, staff residences, and general purposes buildings and services. The post will be included in College Superannuation Scheme.

Further particulars may be obtained from Architect and Buildings Officer The College, Keele, Staffs, to whom three copies of application giving full details of age, education, qualifications, experience, etc., and names of three referees, should be sent not later than 30th JUNE, 1960.

WEST SUFFOLK
COUNTY COUNCIL.

Applications are invited for the post of BUILDINGS INSPECTOR within A.P.T. Grade I (£610-£765).

N.J.C. Service Conditions; post pensionable; medical examination.

Applicants should have experience in the preparation of reports and specifications, and supervision of work.

Application forms obtainable from the County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

LONDON
COUNTY COUNCIL.

ARCHITECTS AND BUILDING SURVEYORS.

Vacancies in the Architect's Department, L.C.C., for architects or building surveyors experienced in surveying existing buildings, preparing sketch schemes, working drawings and specifications and supervising works in progress, for the complete internal modernisation of the older types of Council flats (jobs up to £50,000), for the rehabilitation of dwellings acquired by the Council and for improvements, alterations and extensions to Council buildings (jobs up to £20,000).

Applicants should have a real interest in this type of work and the ability to act on their own judgment since the maximum opportunity will be afforded to each to carry his own jobs through from survey to completion.

Salaries up to £1,135 according to qualifications and experience (salary scales at present under review—probable new maximum of grade £1,250).

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/1484/6B), County Hall, S.E.1.

STEVENAGE
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ENGINEERING ASSISTANT—Grade A.P.T. II (£765-£880 p.a.), to assist initially on the design and construction of improvements to Council Houses. Preference will be given to candidates who have passed the intermediate examination of the Royal Institution of Chartered Surveyors.

(b) BUILDING INSPECTOR—Grade A.P.T. II (£765-£880 p.a.). Candidates must be experienced in building construction and the administration of the Building Byelaws.

In the case of both appointments housing accommodation will be provided if required and a casual user car allowance will be paid.

The appointments will be the subject of the Local Government Superannuation Acts and to the passing of a medical examination. The appointments are terminable by one month's notice on either side.

Applications, stating age, past and present appointments, and experience, together with the names of two referees, must be delivered to the undersigned by not later than 8th JULY, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage,
Herts.

CHORLEY
RURAL DISTRICT COUNCIL.

TECHNICAL ASSISTANT (BUILDING).

Applications are invited for the above APPOINTMENT at a salary in accordance with Grade A.P.T. I or II (£610-£880) depending upon qualifications and experience.

Applicants for the appointment should have experience in the examination and inspection of buildings and a sound knowledge of contract procedure, preference being given to candidates with some experience of pricing small works.

The appointment is superannuable and subject to the National Scheme of Conditions of Service and to one calendar month's notice on either side.

Applications giving full personal particulars with details of training and experience, and naming two referees must reach me by the 27th JUNE, 1960.

DAVID CLARKSON,
Clerk of the Council.

Council Offices,
Gillibrand-street,
Chorley.

WALTHAM HOLY CROSS
URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT FOR CAPITAL WORKS.

Applications are invited for an ARCHITECTURAL ASSISTANT in the Department of the Engineer and Surveyor. Preference will be given to candidates with housing experience.

The salary will be within the National Scale—Special Grade (£785 to £1,070) plus London Weighting; commencing salary according to qualifications and experience. Applicants must be Associate Members of the R.I.B.A. and/or Registered Architects.

The appointment will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Acts, and to one month's notice on either side. The successful applicant will be required to pass a medical examination.

Applications, stating age, with full particulars of qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be sent to the undersigned not later than NOON on TUESDAY, 28th JUNE. Applicants should disclose any relationship to a member or senior officer of the Council. Canvassing will disqualify.

ROLAND E. SMITH,
Clerk of the Council.

Town Hall,
Waltham Abbey,
Essex.
7th June, 1960.

THE CORPORATION OF THE CITY OF GLASGOW
ARCHITECTURAL & PLANNING DEPARTMENT

ASSISTANT ARCHITECTS

Vacancies exist for a number of qualified Assistant Architects in this Department, which has in hand a large and interesting programme of works including redevelopment involving multi-storey flats and school buildings. The work will provide scope for initiative in preparing designs and details for schemes on which construction work is intended to be started soon.

The salary scale is up to £1,385 with placing according to experience.

Form of application may be obtained from the **Principal Administrative Officer, 20 Trongate, Glasgow, C.1.**

A. G. JURY,
City Architect and Planning Officer.

SHEFFIELD
REGIONAL HOSPITAL BOARD.

CLERK OF WORKS.

Applications are invited for the above appointment with responsibility for supervision of capital works at hospitals in the Sheffield area involving building, reinforced concrete and similar work. The appointment is temporary but is likely to be at least for two years. Applicants must have served an apprenticeship in one of the recognised building trades and have had experience as a Clerk of Works on large schemes. Salary will be in the range of £800 to £1,050 per annum, according to qualifications and experience. Travelling expenses between contracts are payable and the ownership of a car would be an advantage.

Applications, stating age, qualifications and giving full details of experience and projects supervised, including costs, together with the names of three referees, should reach the Secretary to the Board, Fulwood House, Old Fulwood-road, Sheffield, 10, not later than MONDAY, 4th JULY, 1960.

HOVE
BOROUGH.

SENIOR ASSISTANT ARCHITECT.
(Grade A.P.T. IV, £1,065-£1,220.)

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV.

Candidates should have a general experience including the preparation of drawings and specifications and should have passed the Final examination of the Royal Institute of British Architects or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service, Local Government Superannuation Acts, medical examination and one month's notice on either side.

Applications stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees must be received by the undersigned not later than WEDNESDAY, 20th JULY, 1960.

Relationship to any member or officer of the Council must be disclosed and canvassing, either directly or indirectly, will be a disqualification.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.
20th June, 1960.

MIDDLESEX
COUNTY COUNCIL.

TECHNICAL ASSISTANT Required at Westminster, salary up to £880 plus London Weighting up to £40, for preparation of drawings and layout of cold water services. Application forms from the County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1 (s.a.e.) returnable by 20th JULY. Prescribed conditions. (Quote C.818B.)

ESSEX
COUNTY COUNCIL.

(a) SENIOR ASSISTANT HEATING ENGINEER, A.P.T.D. V, Salary not exceeding £1,375. Applicants should have at least 10 years' experience in designing schemes and preparing plans, specifications and estimates and reports for heating, hot and cold water, gas and ventilation installations. To work under minimum supervision

(b) ASSISTANT HEATING ENGINEER, Special Scale. Salary not exceeding £1,070. Applicants should be experienced in work described above.

Commencing salary in each case according to qualifications and experience.

Application form from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, returnable with copies of three testimonials by 12th JULY, 1960.

STAFFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified candidates for the following post(s):—

ASSISTANT ARCHITECTS.
Grade A.P.T. V (£1,220-£1,375).
Grade A.P.T. IV (£1,065-£1,220).
Candidates must be Associates of R.I.B.A., and suitably experienced.
Special Grade (£785-£1,070).
These posts are particularly suitable for recently qualified Architects.
Grade A.P.T. II (£765-£880).
Applicants must hold Inter R.I.B.A.

ASSISTANT QUANTITY SURVEYORS.
Grade A.P.T. IV (£1,065-£1,220).
Applicants must be A.R.I.C.S. (Quantities) and thoroughly experienced in the preparation and management of contracts, and contract settlement. Car allowance. The Council has a scheme for loans towards the purchase of motor vehicles.
Grade A.P.T. II (£765-£880).
Applicants must hold Inter R.I.C.S.

The Department has an extensive and interesting programme of work for all Committees of the County Council.

The appointment(s) will be subject to:—
(a) The National Scheme of Conditions of Service.
(b) The Local Government Superannuation Acts and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical County for a period of six months, also second-class rail travel home every second month during the initial six months. The Council are also prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses.

There is a possibility that housing may be made available in special circumstances.

Forms of application, which must be returned by the 6th JULY, 1960, may be obtained from the County Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

WATFORD
BOROUGH.

Watford is a pleasant, thriving town in south-west Hertfordshire, in the Green Belt and with easy access to the open country. Although within easy reach of London it has a distinct civic consciousness and cultural, educational, shopping and transport facilities are excellent.

The Corporation has a large number of projects in hand and envisaged, including Swimming Bath, Library extensions, multi-storey buildings, flatted factories and housing, and expansion of the Borough Engineer, Surveyor and Architect's Department is contemplated to handle these schemes.

Applications are invited from suitably qualified candidates for:—

(a) ASSISTANT ARCHITECT, Salary within Grade A.P.T. IV (£1,065-£1,220 per annum).

(b) ARCHITECTURAL ASSISTANTS, Salary within Grades A.P.T. II-III (£765-£1,065 per annum).

(c) ARCHITECTURAL ASSISTANT, Salary within Grade A.P.T. I-II (£610-£880 per annum).

The Assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility.

Commencing salaries will be commensurate with experience and ability and Housing accommodation will be provided for those requiring it.

Applications to be sent to the undersigned not later than 11th JULY, 1960.

F. C. SAGE, A.M.I.C.E., M.I.Mun.E., Registered Architect, Borough Engineer, Surveyor and Architect.

Town Hall,
Watford,
Herts.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

EXPANSION OF ARCHITECTURAL DEPARTMENT.
P. H. KNIGHTON, M.B.E., A.R.I.B.A., REGIONAL ARCHITECT.

1. ARCHITECTURAL RESEARCH FELLOWSHIP.

In connection with the very considerable expansion of the hospital building programme now imminent, it has been decided to create a RESEARCH FELLOWSHIP to further investigation into the DESIGN and EQUIPPING OF HOSPITALS. The investigation is being promoted by the Regional Hospital Board in association with the Board of Governors of the United Newcastle upon Tyne Hospitals and the appointment will be for a period of three years.

The salary scale will be £1,300 x £60(2)-£1,420 and the post will be superannuable in accordance with the National Health Service regulations.

The architect appointed will be attached to the staff of the Regional Architect and be responsible through him to a Steering Committee representing the two Boards.

It is intended that initially the research will be directed towards means of achieving easily cleaned finishes in operating suites and to establishing a small permanent exhibition of models, samples, photographs and drawings to illustrate approved types. The investigation will subsequently deal with the design and equipping of a number of other hospital departments.

Applicants should preferably be within the age group 28 to 32, should be registered architects and Associate Members of the Royal Institute of British Architects, and should possess both enthusiasm and a marked ability for architectural research and the presentation of its results. The man appointed will be given opportunities for travel both in the British Isles and on the Continent to see modern hospital buildings.

To a keen and able architect the post offers an exceptional opportunity for becoming well versed in the techniques of designing and equipping modern hospitals and thus for fitting himself for future advancement.

2. ARCHITECTURAL STAFF.

As the Board is in the process of increasing considerably its Architectural Department in Newcastle to deal with a programme at present totalling about £12m., applications are also invited for the following (superannuable) posts:—

ASSISTANT ARCHITECTS (£905 x £35(1) x £45(6) x £50(2)-£1,310).

Applicants must be registered architects. Increments can be given above the bottom of the grade in accordance with relevant practical experience since qualifying.

ARCHITECTURAL ASSISTANTS (£625 x £30(8) x £35(1)-£900).

Inter R.I.B.A. and some practical experience.

ARCHITECTURAL DRAUGHTSMEN (£475 x £25(6) x £30(2)-£685).

Applicants should have had 3 years' previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications should give details of professional training, qualifications, experience and posts held; present salary and any other relevant information, should be accompanied by the names of three architectural referees, and should reach the Secretary to the Board, Benfield-road, not later than 6th JULY, 1960.

AIR MINISTRY

require JUNIOR and SENIOR WORKERS-UP in Quantities Division in London. Must be fully experienced and competent to Work Up entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualification. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave a year initially. Salary ranges (Junior) from £720 (at age 26) to £900, and (Senior) £794 (at age 26) to £1,065. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to the Manager (PE. 1234), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent.

YORKSHIRE
ELECTRICITY BOARD.

NO. 4 (LEEDS) SUB-AREA.

SENIOR DRAUGHTSMAN (CIVIL).

Applicants should have had a recognised technical training and have had experience in the design and detailing of new buildings and in the conversion of existing buildings.

Experience in the preparation of Bills of Quantities and Estimates is essential and the ability to design simple reinforced concrete and/or steel structures would be an advantage.

Salary: N.J.B. Schedule "D" Grade V, £790 x £20-£890 per annum.

Applications, giving full details of age, qualifications and experience, together with the names of two referees, should be forwarded to the Manager, No. 4 (Leeds) Sub-Area, Yorkshire Electricity Board, Bramhope, nr. Leeds, not later than 8th JULY, 1960.

HARROW
BOROUGH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:

BUILDING INSPECTOR. Salary £880 per annum plus London "Weighting" maximum of A.P.T. Grade II). This post carries an essential user car allowance.

Applicants should be in possession of the Building Inspector's Certificate of the Institution of Municipal Engineers.

TECHNICAL ASSISTANT (BUILDING BYELAWS). Salary £880 per annum plus London "Weighting" (maximum of A.P.T. Grade II).

Applicants should be qualified Building Inspectors.

The duties will be mainly in the office advising callers regarding the Council's Building Byelaws and other matters normally dealt with in a Building Inspector's Section.

The Council is unable to provide housing accommodation, but a contribution towards removal expenses will be considered.

The appointments will be subject to the local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Application forms are obtainable from me, to whom they should be returned by SATURDAY, the 9th JULY, 1960.

D. H. PRITCHARD,
Town Clerk.

Harrow Weald Lodge,
Harrow,
Middlesex.

EALING
BOROUGH.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765 plus London Weighting). Must have passed Inter. R.I.B.A. or its equivalent.

TWO ARCHITECTURAL ASSISTANTS, within scale A.P.T. IV according to experience (£1,100-£1,265 inclusive). Must hold recognised architectural qualifications.

DRAUGHTSMAN, GENERAL DIVISION (£225-£695, inclusive according to age and experience) for Civil Engineering work.

PETROLEUM OFFICER, A.P.T. I £650-£805 inclusive) for inspection and testing of petroleum installations, etc. Car allowance.

Full particulars and form of application for these appointments obtainable from Borough Engineer and Surveyor, Town Hall, Ealing, W.5.

Closing date: 30th JUNE, 1960.

E. J. COPE-BROWN.

OXFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT.

Applications are invited for the post of COUNTY ARCHITECT. The salary will be £2,550 per annum, rising, subject to satisfactory service, by one annual increment of £115 and two annual increments of £110 to a maximum of £2,885 per annum. The appointment will be subject to three months' notice on either side and to the Conditions of Service of the Joint Negotiating Committee for Chief Officers of Local Authorities.

Candidates must be members of the Royal Institute of British Architects, and preference will be given to those having had appropriate local government experience.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1937-53, and the successful candidate will be required to pass a medical examination.

Applications must include the names and addresses of not more than three persons who have knowledge of the applicant and his work and to whom reference can be made. They should be returned to the Clerk of the Council, County Hall, Oxford, so as to reach him not later than first post on FRIDAY, 1st JULY.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.
9th June, 1960.

OLDHAM
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF SURVEYING ASSISTANT.

Applications are invited for the appointment of SURVEYING ASSISTANT at a salary within Grade Miscellaneous V (£650-£715), commencing salary according to experience.

Applicants should be competent Surveyors and will be engaged in the field and in the Engineer's Drawing Office on both engineering and building works. National Conditions of Service and Local Government Superannuation Acts will apply.

Applications stating age, qualifications, experience and accompanied by copies of two recent testimonials, or the names of two persons to whom reference may be made, should reach me not later than WEDNESDAY, the 6th JULY, 1960, in envelopes endorsed "Surveying Assistant."

A. L. HOBSON,
Borough Engineer and Surveyor,
75 Union-street,
Oldham.

FINSBURY
METROPOLITAN BOROUGH.

Applications are invited for a CLEAN AIR OFFICER, salary grade A.P.T. I (£610-£765 p.a.) plus London Weighting. Superannuation Scheme. Experience in the building or allied trades essential. Duties include visiting residential premises to estimate cost of adaptation of installations necessary to burn smokeless fuel and supervising correct installation; assessing capability of boilers and heating appliances in commercial and industrial premises, to operate smokelessly.

Applications stating age, qualifications and experience, together with the names of two referees should be received by the undersigned not later than 6th JULY, 1960.

HENRY A. DAVEY,
Town Clerk.

Town Hall,
Rosebery-avenue, E.C.1.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex

BETHNAL GREEN
METROPOLITAN BOROUGH.

AMENDED ADVERTISEMENT.

BUILDING WORKS MANAGER AND SUPERINTENDENT Required for Direct Labour Building Section. Salary scale A.P.T. IV (£1,065-£1,220) rising temporarily to A.P.T. V (£1,220-£1,375) plus London Weighting, whilst responsible for construction of major new housing schemes; thereafter in A.P.T. IV.

Particulars and forms of application from Town Clerk, Town Hall, Bethnal Green, E.2, to whom completed forms must be returned by noon on 8th JULY, 1960.

NORTH RIDING
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for a post of SENIOR ASSISTANT ARCHITECT from Associates of the R.I.B.A., by examination. Salary: J.N.C. Grade B—£1,320 x £55 to £1,485. Experience with educational buildings required.

National Scheme of Conditions of Service and the Local Government Superannuation Acts apply, and medical examination required. Applications should state age, qualifications and experience, give particulars of previous and present appointments, and names of three persons to whom reference can be made, and be delivered to the undersigned not later than 2nd JULY, 1960. Canvassing, directly or indirectly, will disqualify and candidates should state whether they are related to any member of, or senior officer under, the Council.

R. A. WOTHERSPOON,
Clerk of the County Council.

County Hall,
Northallerton,
Yorkshire.
9th June, 1960.

LEICESTER CITY.

NEW SEWAGE DISPOSAL WORKS, WANLIP.
(Resident Engineers: Messrs. J. D. and D. M. Watson.)
APPOINTMENT OF SENIOR ASSISTANT RESIDENT ENGINEER.

Applications are invited for the above from suitable qualified persons who should preferably be Corporate Members of the Institution of Civil Engineers and have had experience in similar work.

The duties of the post will include assisting the Resident Engineer and acting for him in his absence in the supervision of the construction of the new Sewage Works, comprising the construction of reinforced concrete sedimentation and storm water tanks, surface aeration units, final settling tanks, sludge digestion tanks, pumping stations, powerhouse, laboratory and office, and incidental works.

The salary in the range of £1,000 to £1,250 per annum depending upon qualifications and experience. The appointment is for the duration of the present programme of works which is anticipated to be three years.

Housing accommodation will be made available for married officers if required.

Applications, giving full details of age, qualifications and experience, together with the names of two referees, to be forwarded to the undersigned not later than the 1st JULY, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

BRISTOL
CITY AND COUNTY.

ARCHITECT'S COMMITTEE.

Applications invited for the following permanent staff appointments from applicants who have the qualification shown or equivalent qualification:—

SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. IV (£1,065-£1,220 p.a.). Final R.I.B.A.

SENIOR ASSISTANT ARCHITECTS, Special Scale (£785-£1,070 p.a.). Parts I and II Final R.I.B.A.

ARCHITECTURAL ASSISTANTS, Grade A.P.T. II (£765-£880 p.a.). Intermediate R.I.B.A.

ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 p.a.). Intermediate R.I.B.A.

SENIOR QUANTITY SURVEYORS, Special Scale (£785-£1,070 p.a.). Final R.I.C.S.

LAND SURVEYOR, Grade A.P.T. I (£610-£765 p.a.). Intermediate R.I.C.S. (Land Surveying or Building Surveying Section.)

The department has an interesting and varied programme of work including the design and construction of Colleges of Art and Further Education, Secondary Schools, Markets, Baths, Libraries and redevelopment projects including blocks of dwellings up to 15 storeys. Facilities will be given for design and contract experience and good opportunities exist for men with drive and initiative to assist in works of major architectural importance.

Five-day week. Assistance with removal expenses.

Housing accommodation available, if necessary, at an economic rent.

Details and application forms, returnable by MONDAY, 11th JULY, from City Architect, Council House, Bristol, 1.

ENFIELD
BOROUGH.
(Non-County Borough in the County of Middlesex:
Population 109,700; Area 12,401 acres.)

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment at a salary in accordance with the Grading of Special Classes of Officers of the National Scheme of Conditions of Service, i.e. £785-£1,070 per annum, with the addition of "London Weighting" as follows:

Age 16-20 years, £15; 21-25 years, £25; 26 years and over, £40.

Commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

Candidates must be Associates of the Royal Institute of British Architects and have had considerable architectural experience including the design and construction of public buildings and new housing estates.

There is a large varied programme of work including the redevelopment of Clearance Areas and other areas scheduled for comprehensive development.

Saturday mornings are normally free of duty.

Application forms, obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, "Percy House," 7 Little Park-gardens, Enfield, Middlesex, must be delivered to the undersigned not later than MONDAY, 11th JULY, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

CHESHIRE
COUNTY ARCHITECT'S DEPARTMENT.

District Architects' Offices at Chester and Wilmslow.

Applications are invited for posts of ARCHITECTURAL ASSISTANTS in Grade A.P.T. I (£610 x 4 at £30 and 1 at £35-£765 per annum) or A.P.T. II (£765 x 1 at £25 and 3 at £30-£880 per annum) in each of the above offices—please state which is preferred.

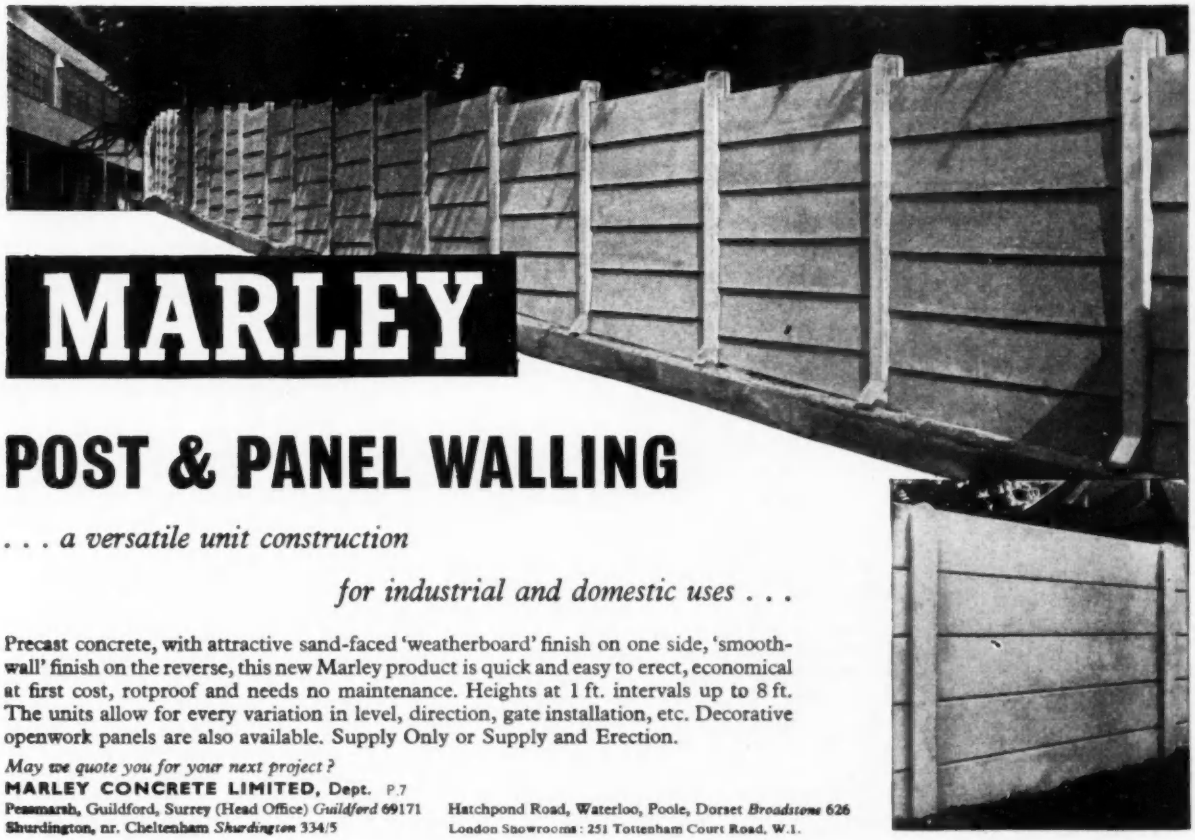
EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.

SALOP
COUNTY ARCHITECT'S DEPARTMENT.

CHIEF ENGINEER.

Applications are invited from suitably qualified men for the post of CHIEF ENGINEER in the County Architect's Department. Salary Grade JNC B/C (£1,275 rising by annual increments to £1,620 p.a.). Commencing salary according to qualifications and experience. The man appointed will be in charge of the Department's Engineering Group, responsible for the design, construction and maintenance of heating and electrical installations and other engineering services in schools and other public buildings. A knowledge of new methods is essential. A disturbance allowance or weekly separation allowance will be paid to a married man taking up the appointment. Conditions of service and application forms obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 14th JULY, 1960.



MARLEY

POST & PANEL WALLING

. . . a versatile unit construction

for industrial and domestic uses . . .

Precast concrete, with attractive sand-faced 'weatherboard' finish on one side, 'smooth-wall' finish on the reverse, this new Marley product is quick and easy to erect, economical at first cost, rotproof and needs no maintenance. Heights at 1 ft. intervals up to 8 ft. The units allow for every variation in level, direction, gate installation, etc. Decorative openwork panels are also available. Supply Only or Supply and Erection.

May we quote you for your next project?

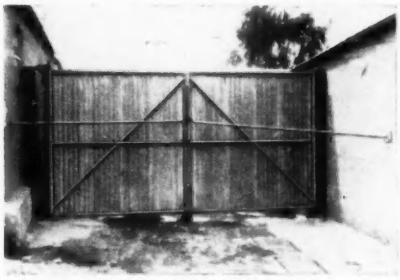
MARLEY CONCRETE LIMITED, Dept. P.7

Peasmarsh, Guildford, Surrey (Head Office) *Guildford* 69171 Hatchpond Road, Waterloo, Poole, Dorset *Broadstone* 626

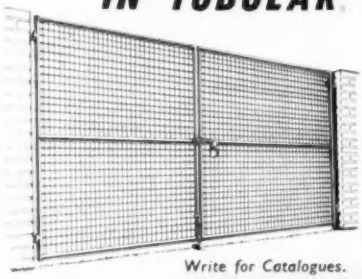
Shurdington, nr. Cheltenham *Shurdington* 334/5 London Showrooms: 251 Tottenham Court Road, W.1.

GATES FOR ALL PURPOSES

Also: Industrial Pallets; Farm and Dairy Equipment, including: Fencing, Cattle Crushes, Service Crates, Stockpens & Yards; Stunning Pens, Lairage and Cattle Market Pens, etc.



IN TUBULAR STEEL



QUALITY PRODUCTS

Write for Catalogues.

GUSH & DENT LTD.

GUSH & DENT LTD., Alresford, Hants. Tel.: Alresford 373 (5 lines).

GUSH & DENT (NORTHERN) LTD., Penrith, Cumberland. Tel.: Penrith 3143 & 3303.

GUSH & DENT LTD., Midlands Area Division. Barnfields, Leek, Staffs. Tel.: Leek 1138.

HOUSING AT MANCHESTER

SPATH ROAD, DIDSBURY

(Old People's Bungalows)

Architect

A. Mackenzie, A.R.I.B.A.

Previous Director of Housing

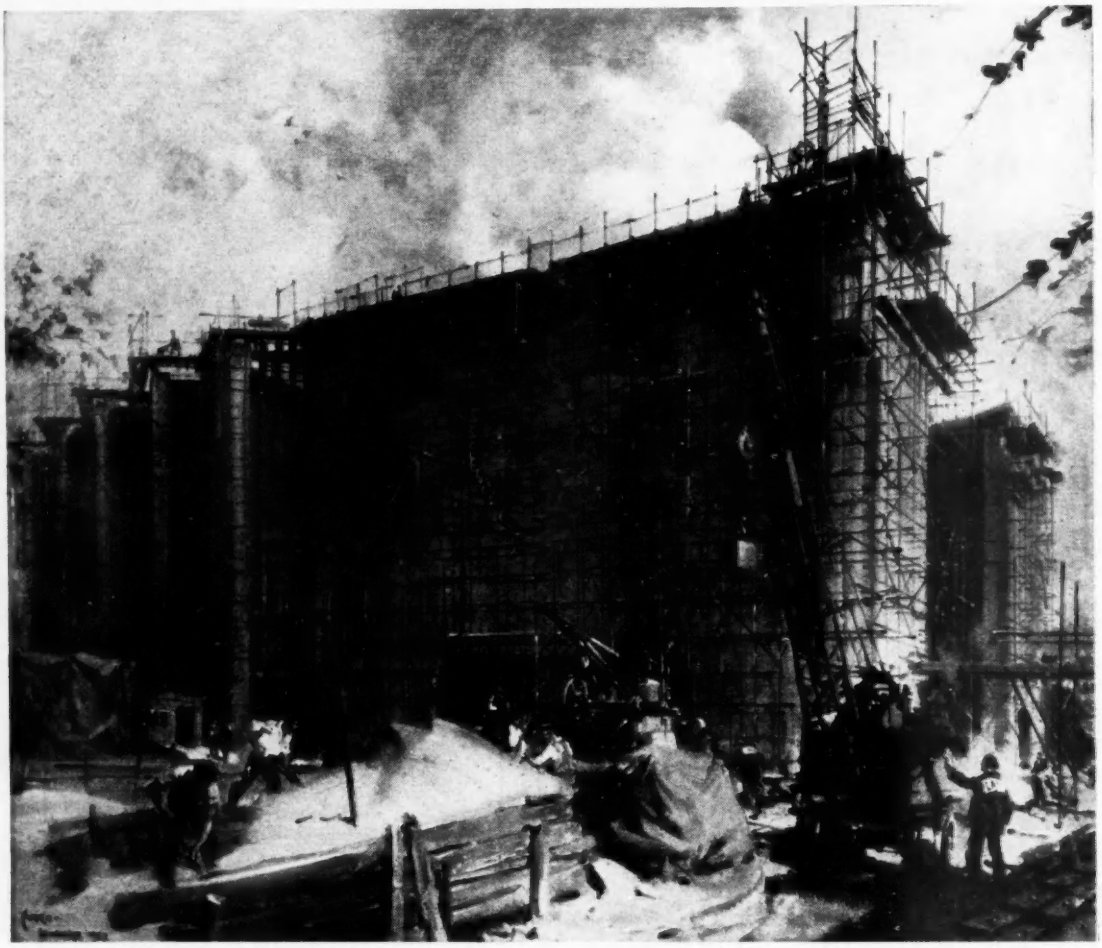
GENERAL CONTRACTOR

E. V. HUGHES and PARTNERS

2 PARK AVENUE, CHORLTON MANCHESTER, 21

As illustrated in this issue

LAING PROJECT



The Cathedral Church of St. Michael, Coventry under construction

From an oil painting by Terence Cuneo

Architect: Basil Spence, O.B.E, A.R.A, A.R.S.A, P.R.I.B.A.

In more than a century of uninterrupted progress John Laing and Son Limited have developed one of the most efficient organisations in the building and civil engineering world.

To every Laing project, whether large or small, are brought the same comprehensive technical resources supported by meticulous advance planning—and generations of practical experience. The name of Laing means high-quality workmanship and completion in the shortest possible time.

JOHN LAING AND SON LIMITED
Building and Civil Engineering Contractors

GREAT BRITAIN · CANADA · UNION OF SOUTH AFRICA · RHODESIA

BRECONSHIRE
COUNTY COUNCIL.

Applications are invited for the following established appointments in the County Planning Department :—
(a) DRAUGHTSMAN
(b) DRAUGHTSMAN or PUPIL ASSISTANT.

Applicants for post (a) should have had considerable drawing office experience and be neat and expeditious draughtsmen capable of collecting and interpreting information for planning surveys from various sources.

For post (b) some knowledge of draughtsmanship is desirable. A suitable applicant could be considered as an articled pupil to the County Planning Officer and could study for the Town Planning Institute's examinations. Further particulars of training may be obtained from the County Planning Officer.

Salaries within General Division, £210 to £465 or £595 per annum, depending on experience and qualifications. Both appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the passing of a medical examination and one month's notice on either side. Canvassing, directly or indirectly, will definitely disqualify candidates. Applicants must state whether to their knowledge they are related to any member or senior officer of the Council. Applications, stating post applied for, age, education, scholastic attainments, qualifications, present appointment and previous experience, with the names and addresses of two referees, must be received by the undersigned not later than 4th JULY, 1960.

C. M. S. WELLS,
Clerk of the County Council.
County Hall,
Brecon.

EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT

Applications are invited for the following temporary appointment :—
SENIOR ASSISTANT ARCHITECT—Grade IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than 3 years.

Further details and application forms returnable by 8th JULY, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

URMSTON
URBAN DISTRICT COUNCIL.

APPOINTMENT OF SENIOR BUILDING INSPECTOR.

Applications are invited for the above appointment at a salary within Grade A.P.T. II (£765-£880) of the N.J.C. Scales of Salaries, plus essential user car allowance.

Applicants must possess a sound knowledge of building construction and practice and the appointment will be subject to the N.J.C. Conditions of Service and the passing of a medical examination.

The Council will be prepared to consider housing accommodation in suitable cases.

Applications stating age, qualifications and experience and the names of two referees, should reach the undersigned not later than 9th JULY, 1960.

L. WATKINS,
Clerk of the Council.
Council Offices,
Urmston,
Nr. Manchester.

ST. HELENS
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

Applications are invited for the following appointments in the Architectural Section of the Department :—
(a) CHIEF ASSISTANT ARCHITECT, Scale "A" (£1,275-£1,420).
(b) PRINCIPAL ASSISTANT ARCHITECT, Grade A.P.T. V (£1,220-£1,375).

Applicants for appointment (a) should be Corporate Members of the R.I.B.A. with experience in design and construction of Public Buildings, Redevelopment Schemes and large scale Housing development and with experience also in the control and supervision of staff.

Applicants for appointment (b) should be qualified Architects with good experience in general municipal development.

The Council operates a five-day working week.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, Medical Examination and N.J.C. Conditions of Service.

Applications stating age, qualifications, present and past appointments, and details of experience, giving names of two referees and clearly indicating the appointment applied for must be forwarded to the undersigned not later than WEDNESDAY, 6th JULY, 1960.

Applicants must reveal relationship to any member or senior officer of the Council. Canvassing will disqualify.

M. WARD,
M.I.Mun.E., M.T.P.I., A.M.I.Struct.E.
Borough Engineer and Surveyor.
Town Hall,
St. Helens.

ST. HELENS
COUNTY BOROUGH.

Applications are invited for the appointment of ESTATES ASSISTANT, A.P.T. Grade IV (£1,065-£1,220) in the Borough Engineer and Surveyor's Department.

Commencing salary will be fixed according to qualifications and experience.

Applicants should have passed the Final Examinations in an appropriate section of the R.I.C.S. or other equivalent examination and have had good experience in the management and maintenance of estates and estate properties, and some experience also in land transactions and valuation.

The Council operates a five-day working week.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, Medical Examination and N.J.C. Service Conditions.

Applications giving names of two referees must be forwarded to the undersigned not later than WEDNESDAY, 6th JULY, 1960.

Applicants must reveal relationship to any member or senior officer of the Council. Canvassing will disqualify.

M. WARD,
M.I.Mun.E., M.T.P.I.,
Borough Engineer and Surveyor.
Town Hall,
St. Helens.

BEDFORDSHIRE
COUNTY COUNCIL.

Applications are invited for the following posts :—
(a) SENIOR ARCHITECTS, A.P.T. V (£1,220-£1,375), and A.P.T. IV (£1,065-£1,220).
(b) ARCHITECTS, Special Scale (£785-£1,070).

Opportunities exist for newly qualified Architects to have responsibility at all stages of the project within a group system of office organisation. Applicants will be appointed at points within the grade in accordance with qualifications and experience.

Application forms obtainable from the County Architect, Shire Hall, Bedford.

COLCHESTER
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade I (£610-£765) per annum according to experience.

Applicants must have a sound knowledge of building construction, able to prepare working drawings, make surveys and use a level. Preference will be given to those who, in addition, are studying for the R.I.B.A. examinations.

Applications endorsed "Architectural Assistant" stating age and full particulars of experience, etc., accompanied by the names of two referees should be delivered to The Borough Engineer, 1 West Stockwell-street, Colchester, not later than FRIDAY, the 15th JULY, 1960.

Canvassing will disqualify and applicants must state whether they are related to any member or senior officer of the Council.

N. CATCHPOLE,
Town Clerk.
Town Hall,
Colchester.
24th June, 1960.

SUNDERLAND
COUNTY BOROUGH.

PUBLIC WORKS DEPARTMENT.
SENIOR MEASURING AND BONUS SURVEYOR,
GRADE A.P.T. II (£765-£880).

Applications are invited from suitable persons who are experienced in site measurement of Building and Civil Engineering New and Maintenance Work. Some experience of negotiating and running incentive bonus schemes would be an advantage.

The post is permanent and superannuable.

Further particulars and Form of Application may be obtained on application to the Public Works Manager, Ivor House, 1 and 3 Otto-terrace, Sunderland.

Applications, suitably endorsed, to be addressed to the undersigned at the Town Hall, Sunderland, so as to reach me not later than MONDAY, 18th JULY, 1960.

Cavassing will disqualify.

G. S. McINTIRE,
Town Clerk.
Town Hall,
Sunderland.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
ARCHITECTURAL DRAUGHTSMEN.

Unqualified ARCHITECTURAL ASSISTANTS required in Housing Division. Candidates must have drawing board experience in an architect's office. Preference to those proposing to qualify by evening study though others considered. Full programme of new work and opportunities for promotion. Starting salaries according to age and experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/1359/6C), County Hall, S.E.1.

QUANTITY SURVEYORS

CITY OF COVENTRY DEPARTMENT OF ARCHITECTURE AND PLANNING (Quantity Surveying Division) requires QUANTITY SURVEYORS APT. IV/V (£1,065 x £55 and £50 – £1,375) in connection with expanding programme which includes Central Swimming Baths (£850,000), College of Technology (£800,000), central redevelopment in high flats (11- and 17-storey) and many other projects.

Appointments may be made according to experience/qualification within Grade. Permanent and pensionable subject to satisfactory medical history.

HOUSING ACCOMMODATION in approved circumstances. Removal expenses loan.

Posts offer opportunity for interesting and varied experience, including both new and traditional techniques, in a progressive office with good conditions in a growing modern City having many amenities.

Full details and application forms from City Architect and Planning Officer, Council House, Coventry, returnable by 18th July, 1960.

LIVERPOOL
UNIVERSITY.

The Liverpool School of Architecture has two vacancies for LECTURERS and STUDIO INSTRUCTORS. The salary is £1,050-£1,850 per annum; the initial salary within the range £1,050-£1,475 per annum, according to age, qualifications and experience.

Applications from young Architects with research interests would be welcomed. There will be opportunities for specialised practical experience.

Applications, stating age, academic qualifications and experience, together with the names of three referees, quoting reference CV/B should be received not later than 18th JULY, 1960, by the Registrar, from whom further particulars of the conditions of the appointment may be obtained.

SHEFFIELD
UNIVERSITY.

Planning Officer: H. B. Johnson, B.A., A.R.I.B.A.

ASSISTANT ARCHITECT Required for Planning Office which is supervising a new building programme costing about £5 million. The work will be varied and interesting and will provide excellent experience for a young and capable man. A.R.I.B.A. essential and good knowledge of service installations desirable. Salary to scale £900 x £50—£1,250 with family allowance and superannuation benefits.

Apply by letter to the Bursar, The University, Sheffield, 10 with names of two persons to whom reference may be made before 9th JULY. Envelopes should be marked "Assistant Architect—Planning Office."

HAMPSHIRE
COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765) required for pensionable post in County Architect's Department. Candidates should be studying for the Intermediate Examination of the R.I.B.A., and have had several years' experience in an Architect's office. Assistance with removal and other expenses in approved cases. Five-day week. Canteen facilities.

Application forms (send s.a.e.), returnable by 30th JUNE, from the Clerk of the County Council, The Castle, Winchester.

BARNET GROUP
HOSPITAL MANAGEMENT COMMITTEE.
BARNET, HERTS.

WORKS DEPARTMENT.

Applications are invited for the post of BUILDING SUPERVISOR. Salary scale (40)-50 points) £860 x £30 (5)—£1,010 per annum, plus London Weighting £40-£50 per annum.

Applicants must have served a full apprenticeship, followed by experience as a craftsman, and some years' experience as a general foreman in carrying out building contracts. Ordinary National Certificate (or comparable qualification) desirable. The officer appointed will be responsible to the Management Committee for the building maintenance work of the Group, and the duties will include the preparation of drawing, specifications and contracts for minor capital works and the supervising of such works entrusted to him (under the direction of the Regional Hospital Board, where appropriate).

Applications, with details of age, qualifications, experience, etc., and giving the names of three referees, should be sent to the Group Secretary, Barnet Group Hospital Management Committee, 1 Wellhouse-lane, Barnet, Herts, by 9th JULY.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the above temporary appointment at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service, i.e. £610-£765 per annum, with the addition of "London Weighting" as follows:

Age 16-20 years, £15; 21-25 years, £25; 26 years and over, £40.

Commencing salary will be fixed at a point within the Scale commensurate with ability and experience.

Candidates must have a sound practical knowledge of all branches of the building trade and be experienced in the supervision and erection of buildings, capable of setting out, taking levels, measuring Contractors' works and keeping records and making reports.

The person appointed will be required to carry out his duties during those hours when building work is in progress on the various contracts with which he is concerned.

Application forms, obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, "Percy House," 7 Little Park-gardens, Enfield, Middlesex, must be returned to the undersigned not later than MONDAY, 11th JULY, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.
Public Offices,
Enfield,
Middlesex.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF CHIEF ASSISTANT ENGINEER.

Applications are invited for the appointment of CHIEF ASSISTANT ENGINEER at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220 per annum).

Applicants must have had considerable experience in municipal engineering and have passed the Final Testamur Examination of Municipal Engineers or hold equivalent qualification.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

The National Joint Council Conditions of Service will apply and the successful applicant must submit to a medical examination.

The district is developing rapidly and offers exceptional experience.

Applications stating age, qualifications experience, with the names of two referees must be received by the undersigned by not later than 4th JULY, 1960.

J. HENWOOD JONES,
Clerk of the Council.
Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

LAMBETH
BOROUGH COUNCIL.

CLERK OF WORKS

Required for contract for two blocks of reinforced concrete 7-storey flats on different sites in Brixton Hill. Applicants with this type of experience only need apply. Salary £17 17s. per week.

Applications, with details of age, training, experience, etc., and the names of two referees, should be made to the Architect for the scheme, Clifford Culpin, O.B.E., F.R.I.B.A., M.T.P.I., 39 Doughty-street, London, W.C.1, by the 4th JULY, 1960.

OXFORD REGIONAL HOSPITAL BOARD

Applications are invited from qualified persons for the post of

SENIOR ASSISTANT

QUANTITY SURVEYOR

in the Regional Architect's Department. Commencing salary £1,300 p.a. rising by increments of £60(5) to £1,600 p.a.

Compulsory Superannuation.

Applications stating age, training, qualifications, previous experience and present salary with the names of two referees should be submitted to the

Secretary, Oxford Regional Hospital Board, 43, Banbury Road, Oxford,

by not later than 4th July, 1960. Further particulars may be obtained from the Regional Architect.

DENBIGHSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT, WREXHAM.

Applications are invited for the following appointments in the above department, viz.:—

(a) SENIOR ARCHITECTURAL ASSISTANTS (TWO). Special Scale. (Salary £785-£1,070 per annum.)

(b) JUNIOR ARCHITECTURAL ASSISTANTS (TWO). A.P.T. Grade II. (Salary £765-£880 per annum.)

(c) QUANTITY SURVEYING ASSISTANT. Special Scale. (Salary £785-£1,070 per annum.)

(d) QUANTITY SURVEYING ASSISTANT. A.P.T. Grade II. (Salary £765-£880 per annum.)

The Department is engaged upon a building programme of new schools and extensions to existing Schools, County Offices, etc., and the above posts offer opportunities and interesting work.

Contribution made towards removal expenses and subsistence allowance to married officers considered.

Further details with form of application can be obtained from me. Completed forms to be returned by 9th JULY, 1960.

W. E. BUFTON,
Clerk of the County Council.

County Offices,
Ruthin,
Denbighshire.

ROWLEY REGIS
BOROUGH.

BUILDING DEPARTMENT.

Applications are invited for:

(a) ARCHITECTURAL ASSISTANT, A.P.T. II (£765-£880).

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£765-£880).

For

(a) Applicants should be experienced in housing and other architectural works normally undertaken by a Local Authority.

(b) Applicants must be experienced in preparing estimates, bills of quantities, checking interim and final accounts.

Applications, stating age, qualifications and experience, together with two recent testimonials, should be sent to the undersigned not later than MONDAY, the 4th JULY, 1960.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill,
Staffs.
June, 1960.

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD.

(a) LAND SERVICE ASSISTANTS; (b) CLERKS OF WORKS. Pensionable posts for men at least 21 on January 1, 1960. Qualifications: (a) good education, wide practical experience and knowledge of general agriculture and estate management, and ability to write clear reports; (b) good experience of building work with ability to supervise modernisation and construction of all types of farm buildings. National salary scale £565 (at 21) to £750 (28 or over) rising to £875. Scale under review. Promotion prospects. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form, quoting S/5150/60. Closing date 21st JULY, 1960.

LONDON
COUNTY COUNCIL.

BUILDING SURVEYORS.

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under the London Building Acts and Byelaws. District Surveyors' offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,250, commencing according to qualifications and experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1637/6), County Hall, S.E.1.

AMENDED ADVERTISEMENT.

LUTON
BOROUGH.

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. IV/V (£1,065-£1,375).

(b) ARCHITECTURAL ASSISTANTS, A.P.T. I/Special (£610-£1,070).

Applicants for (a) must be Chartered Architects and the point of commencement within the linked grades will be dependent on qualifications and experience. The Council reserve the right to impose a proficiency bar at the maximum of A.P.T. IV (£1,220) but will be prepared to appoint suitably experienced applicants in or progressing to A.P.T. V.

Under (b) the Council will consider applications from candidates who have completed professional training but have not passed their final examinations. The grades within the range at which appointments will be made will depend on qualifications and experience.

In both cases consideration will be given to the provision of housing accommodation and payment of reasonable removal expenses.

Luton is a rapidly developing borough with a large and varied programme of capital works in hand or projected which offers exceptional opportunities of gaining experience.

Further particulars and forms of application may be obtained from the Borough Architect, Town Hall, Luton, by whom applications should be received not later than 1st JULY, 1960.

EAST HAM
COUNTY BOROUGH.

SENIOR ASSISTANT ARCHITECT, A.P.T. III. Salary £880-£1,065 plus London Weighting.

ARCHITECTURAL ASSISTANTS, A.P.T. I. Salary up to £795 per annum including London Weighting.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 8th JULY, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

BRENTFORD
AND CHISWICK
BOROUGH.

APPOINTMENT OF MEASURING SURVEYOR.

Applications are invited for the abovementioned appointment in the Borough Engineer and Surveyor's Department at a salary in accordance with grade A.P.T. II (£805 to £920 per annum including London Weighting). Commencing salary will be according to qualifications and experience.

Applicants must be thoroughly experienced in the measurement of building work and in the settlement of interim and final accounts.

HOUSING ACCOMMODATION AVAILABLE.

Form of application, which is to be returned not later than 30th JUNE, 1960, can be obtained from the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4.

W. F. J. CHURCH,
Town Clerk.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

ASSISTANT ARCHITECTS.

Salary £905-£1,310 per annum. Must be registered Architect by examination. Post not necessarily restricted to those with previous hospital experience and offers opportunities for gaining knowledge and experience of the whole field of hospital architecture ranging from adaption schemes to comprehensive new hospital projects including ward units, operating theatres, out-patients' departments, maternity units, X-ray departments, kitchens, boiler houses, staff housing accommodation and numerous other types of building. Superannuable. Five-day week. Generous annual leave. Applications to Secretary, 10 Augustus-road, Birmingham, 15, by 7th JULY, 1960 stating qualifications, age, experience, present position and salary and naming two referees.

MERSEYSIDE AND NORTH WALES
ELECTRICITY BOARD.

DRAUGHTSMAN (ARCHITECTURAL) Required in the Engineering Department at the Headquarters of the Board, Electricity House, Love-lane, Liverpool, 3.

Applicants should be 21 years of age or over, have served a building apprenticeship or received architectural training, and have obtained the O.N.C. (Building) or equivalent. Experience in the preparation of building construction drawings would be an advantage but is not essential.

The salary payable will be within the range £620-£740 per annum (N.J.B. Schedule "D" Grade VI), with prospects of progress to Grade V (£790-£890 per annum).

Appointment subject to medical examination. Pension Scheme.

Applications, by letter to the Establishments Officer at the above address, should be received not later than 4th JULY, 1960.

MANCHESTER
CITY ARCHITECT'S OFFICE.

Applications invited for the appointment on the permanent staff of:—

(1) DEPUTY CHIEF STRUCTURAL ENGINEER. Candidates must be A.M.I.Struct.E. or A.M.I.C.E. and have had at least five years' design experience since becoming an associate member; should also have a sound knowledge of design in reinforced concrete, steelwork and structural timber, together with an adequate knowledge of current byelaws and codes of practice.

(2) SENIOR ASSISTANT ARCHITECT/GROUP LEADER. Candidates must be architects of some experience, have high ability in design, be capable of taking charge of large contracts and of controlling a group of assistant architects.

(3) SENIOR ASSISTANT QUANTITY SURVEYOR GROUP LEADER. Candidates must be fully qualified and have considerable experience in the preparation of bills of quantities and specification, interim valuations and settlement of final accounts, for all classes of local authority building work.

Salary for each appointment: J.N.C.B. £1,260-£1,485 per annum.

Five-day week. Housing accommodation for a limited period may be provided. Removal expenses allowed.

Forms of application from the City Architect, Town Hall, returnable by the 8th JULY, 1960.

CANTERBURY CITY.

ASSISTANT ARCHITECT, £785-£1,220.

Applications are invited for the above appointment in the City Architect and Planning Officer's Department.

Commencing salary according to ability and experience. The successful candidate will be engaged initially on housing projects and must have attained the necessary standard of professional qualification. Housing accommodation available if required.

Applications, with the names of two referees, to the City Architect and Planning Officer, John L. Berbiers, F.R.I.B.A., A.M.T.P.I., by WEDNESDAY, 29th JUNE, 1960.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

HARROW
BOROUGH.

Vacancies exist for QUANTITY SURVEYING ASSISTANTS in the Department of the Borough Engineer and Surveyor.

Salary £765 per annum, plus London "Weighting" (maximum of A.P.T. Grade II or £880 per annum plus London "Weighting" (maximum of A.P.T. Grade II) according to qualifications and experience.

The Council is unable to provide housing accommodation but contributions towards removal expenses will be considered.

The appointments will be subject to the Local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Application forms are obtainable from me, to whom they should be returned not later than SATURDAY, 9th JULY, 1960.

D. H. PRITCHARD,
Town Clerk.

Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middlesex.

INDUSTRIAL ORTHOPAEDIC SOCIETY

THE MANOR HOUSE HOSPITAL, North End-road, Golders Green, N.W.11.

An EXPERIENCED CLERK OF WORKS of proved ability Required for extension project. Anticipated starting date June, 1960. Contract period about two years.

Write giving full details of experience, salary required, availability and references to:—

W. F. Pendrill, General Secretary, The Manor House Hospital, Golders Green, N.W.11.

LANARK
COUNTY.

CLERK OF WORKS.

Applications are invited for the post of CLERK OF WORKS for the New County Buildings to be erected at Hamilton. The scheme includes a seventeen-storey office block. Applicants must have considerable experience on multi-storey buildings of reinforced concrete construction with good class finishes and services.

Salary scale £1,000 by annual increments of £50 to £1,200. Placing may be given according to qualifications and experience.

Post will be temporary and is expected to last for approximately three years.

Applications stating age, qualifications and experience to County Clerk, P.O. Box No. 1, Glasgow, by 2nd JULY, 1960.

CARDIFF CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade III/IV, £880-£1,220 per annum.

SENIOR ASSISTANT QUANTITY SURVEYORS, A.P.T. Grade IV, £1,065-£1,220 per annum.

Applicants should be fully qualified and experienced.

General Conditions of Appointment may be obtained from the undersigned.

Applications accompanied by the names and addresses of two referees, appropriately endorsed, should be delivered to me not later than the 11th JULY, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

AIR MINISTRY

Works Design Branch requires in LONDON and PROVINCES ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted. Salary: in LONDON ranges from £680 (age 25) to £900 p.a. for men; from £673 to £868 p.a. for women; somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to AIR MINISTRY, W.G.d., Lacon House, Theobalds-road, London, W.C.1, or apply to any Employment Exchange quoting Kings Cross 891 giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

LONDON
COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Required for newly created posts in the department of architecture from 1st SEPEMBER, 1960, or as soon thereafter as possible:—

(1) SENIOR LECTURER to teach in and be responsible for part-time and evening courses. Some teaching experience desirable. Burnham F.E. salary, £1,550 x £50—£1,750.

(2) LECTURER for design and construction with special emphasis on construction materials and service. Burnham F.E. salary, £1,370—£1,550.

(3) GRADE B ASSISTANT TEACHER for construction and studio instruction. Burnham F.E. salary, £700—£1,150, plus possible additions for approved training and qualification.

Candidates for all posts should be members of the R.I.B.A. and preferably hold degree or diploma of a recognised school.

All posts carry a London allowance of £38 or £51 according to age.

Application forms and further particulars from Secretary at College (FE3a/B/1438/6), Lime-grove, W.12, to be returned WITHIN 14 DAYS.

LONDON
COUNTY COUNCIL.

STRUCTURAL ENGINEERS.

Required in Architect's Department, L.C.C., salary up to £1,250, in:—

(a) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION. To deal with applications in respect of special structures under Part IV of the London Building Act (Al Act, 1939, and the constructional By-laws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYORS' SERVICE. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1638/6), County Hall, S.E.1.

KENT
COUNTY COUNCIL

requires a CLERK/DRAUGHTSMAN in the Planning Department at County Hall, Maidstone. Salary within Miscellaneous Grades I-IV (£425-£650 per annum), commencing point according to qualifications and experience. Post is superannuable. Five-day week in operation. Applications with names of two referees to County Planning Officer, County Hall, Maidstone, by 5th JULY, 1960.

LONDON
ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above position in the Chief Engineer's Department near Waterloo.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an architect's office.

The post is graded under Schedule "D" of the National Joint Board Agreement as Grade 5—£830 to £940 per annum, inclusive of London Allowance.

Application form obtainable from Personnel Officer, 46 New Broad-street, E.C.2, to be returned completed WITHIN FOURTEEN DAYS of the publication date of this advertisement. Please quote ref. PER/V/2997/B.

NOTTINGHAM CITY.

ASSISTANT QUANTITY SURVEYORS.

Applications are invited for the following appointment in the City Engineer's Department:—

ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. III or Special Grade, i.e. between £785 and £1,070 per annum with annual increments. Applicants should have good professional experience and the person appointed will be responsible for the quantity surveying work on individual contracts. Associateship of the R.I.C.S. will be an advantage.

Commencing salary will depend on candidate's qualification and experience.

Assistance with housing may be given.

Applications, on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, should be returned to him not later than 29th JUNE, 1960.

BRENTFORD
AND CHISWICK BOROUGH

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for this post on Special Grade (£830-£1,115 p.a.). Commencing salary will be in accordance with qualifications and experience. Preference will be given to candidates who have passed the examination for A.R.I.B.A.

The Council may be prepared to assist in the provision of housing accommodation.

Applications to Borough Engineer and Surveyor, not later than 30th JUNE, 1960.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.

SURREY
EDUCATION COMMITTEE.

EWELL COUNTY TECHNICAL COLLEGE,
REIGATE-ROAD, EWELL.

Required SEPTEMBER, an ASSISTANT LECTURER to be responsible for Quantity Surveying in full-time and part-time Surveying Courses for R.I.C.S. First and Intermediate Examinations. Applicants must be qualified in Quantity Surveying and should have good professional and or teaching experience. The post offers an exceptional opportunity for a man with initiative and the ability to co-ordinate all the professional examinations of the R.I.C.S.

Salary on the Burnham Technical Scale up to a maximum of £1,411 p.a. according to age, experience and qualifications.

S.A.E. for application form and particulars from the Principal, to be returned by 8th JULY, 1960.

LEEDS CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

Post No. 1. CHIEF ASSISTANT HEATING ENGINEER. Grade A.P.T. IV-V. Salary scale, £1,065-£1,375.

Post No. 2. SENIOR ASSISTANT HEATING ENGINEER. Grade A.P.T. III. Salary scale £880-£1,065.

Candidates suitably qualified should have had experience in the design of schemes and preparation of specifications for all classes of work including Educational and other Public Buildings.

Applicants must clearly indicate the post for which they wish to be considered.

Medical examination. Superannuation payable.

Closing date for applications, SATURDAY, 16th JULY and these are to be sent to the City Architect, Priestley-House, Quarry-hill, Leeds, 9.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry-hill,
Leeds, 9.
14th June, 1960.

LONDON
COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for the certificate of proficiency to perform the duties of District Surveyor will be conducted in London in the week commencing 10th OCTOBER, 1960. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,850 to £3,000 a year) or as Assistant District Surveyor (present salary scale £1,295 to £1,535 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EK/B/1008/6), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st SEPTEMBER, 1960.

GLOUCESTERSHIRE
COUNTY COUNCIL.

APPOINTMENT OF BUILDING SURVEYORS.

BUILDING SURVEYORS Required—Grades A.P.T. I (£610-£765) and A.P.T. II (£765-£880).

Preference will be given to applicants who hold Higher National Certificate (Building), or have passed the Intermediate Examination R.I.C.S., or equivalent qualification.

N.J.C. Service Conditions, superannuation, medical examination.

Applications, stating age, present position, salary and date of appointment, previous appointments, names and addresses of two persons for reference, to County Architect, Shire Hall, Gloucester, by 2nd JULY, 1960.

GUY H. DAVIS,
Clerk of the County Council.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYING ASSISTANTS Required in Quantities Division for Working-up in connection with major building works.

Salaries up to £950 a year according to experience. (N.B.—Salaries quoted are subject to a salary settlement shortly to be confirmed.)

Application form from Hubert Bennett F.R.I.B.A., the Architect to the Council (EK/B/1554/6), County Hall, S.E.1.

WEST HAM
COUNTY BOROUGH.

BONUS MEASURING ASSISTANT Required. Must be experienced in measuring building works in all trades for incentive bonus. Salary: Misc. Grade V, £650 to £715 p.a. plus London Allowance of £25-£40 p.a. according to age.

Applications in writing, giving full particulars of experience, age, etc., to Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15, by 2nd JULY, 1960.

SOUTH-WESTERN REGIONAL
HOSPITAL BOARD.

Applications are invited for the following posts in the Architect's Department in connection with an extension of the Board's hospital building programme:—

(a) TWO PRINCIPAL ASSISTANT ARCHITECTS (Scale II), £1,665 x £50 (1) x £75 (2) x £85 (2)—£2,035.

(b) TWO SENIOR ASSISTANT ARCHITECTS, £1,300 x £50 (5)—£1,600.

(c) ONE ASSISTANT ARCHITECT, £905 x £35 (1) x £45 (6) x £50 (2)—£1,310, who would be required to work either in the Bristol or Plymouth Office.

Applicants must be Registered Architects. Previous hospital experience desirable but not essential. The work offers an opportunity of gaining experience in the field of hospital planning and covers all stages from sketch plans to the supervision of construction.

Applications stating age, qualifications and experience with the names of three referees to reach the Secretary of the Board, 27 Tyndalls Park-road, Bristol, 8, by 16th JULY.

SHEFFIELD CITY.

APPOINTMENT OF SENIOR CLERK OF WORKS (HOUSING).
Grade A.P.T. III (£880-£1,065).

Applications are invited for the above permanent appointment on the staff of the City Architect, Mr. J. L. Womersley, to supervise contracts for the erection of houses, maisonnettes and multi-storey flats including the construction of roads and sewers.

Candidates should have a thorough knowledge of building construction including modern reinforced concrete practice, a wide experience of the building trade and hold the Higher National Certificate in Building or equivalent qualification.

Applications, stating age, present and past appointments, and full particulars of qualifications and experience, accompanied by the names and addresses of two referees, should be sent to the undersigned by MONDAY, 4th JULY, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

OLDBURY
BOROUGH.

Applications are invited for the following appointments on the staff of the Borough Surveyor:

(a) SENIOR ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, Salary A.P.T. III (£880-£1,065).

Candidates should be well trained and experienced in the design and preparation of schemes and supervising contracts in connection with General Housing including Multi-storey Flats, Public Buildings, School Buildings and Minor Improvements and Maintenance Works.

The appointments will be superannuable subject to the National Conditions of Service and to the selected candidates passing a medical examination.

Applications giving particulars of age, qualifications and experience to be sent to the undersigned not later than the 4th of JULY, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.
June, 1960.

SURREY
COUNTY COUNCIL.

Applications invited for CLERK OF WORKS on major building projects and maintenance. Salary range £16-£20 p.w. according to ability and experience. Must have been properly trained as craftsmen. Application Forms from County Architect, County Hall, Kingston, to be returned to him by 8th JULY, 1960.

FULHAM
BOROUGH COUNCIL.

PRINCIPAL ASSISTANT ARCHITECT, BOROUGH ARCHITECT'S DEPARTMENT.

A.P.T. IV—£1,110-£1,265 p.a., commencing according to qualifications and experience. Candidates must be R.I.B.A. or Registered Architects. Schemes include Housing, Libraries, Baths, etc. 5-day week. Details from Town Clerk, Town Hall, Fulham, S.W.6. Closing date 11th JULY.

SHEFFIELD CITY.

CITY ARCHITECT'S DEPARTMENT. APPOINTMENT OF GROUP LEADER ARCHITECT.

Grade A.P.T. V (£1,220-£1,375).

Applications are invited from suitably qualified persons for this permanent appointment on the staff of the City Architect, Mr. J. L. Womersley.

The post is in the Education and General Section which has an intensive programme of new schools, colleges and public buildings of all kinds. The successful candidate will be required to design and supervise to completion major works of this nature.

Applications stating age, education and training, qualifications and experience, present and past appointments together with the names and addresses of two referees, should reach me by MONDAY, 4th JULY, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

FULHAM
BOROUGH COUNCIL.

BOROUGH ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS or ASSISTANT ARCHITECTS with the minimum of two years' continuous Drawing Office experience. Salary range £635-£1,115, commencing according to qualifications and experience. Assisted training and promotion schemes. 5-day week. Details from Town Clerk, Town Hall, Fulham, S.W.6. Closing date 11th JULY.

WEST SUSSEX
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

TEMPORARY CLERK OF WORKS at a salary of £16 per week.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted as soon as possible.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester
Sussex.

OVERSEAS PUBLIC APPOINTMENTS

NIGERIA
FEDERAL GOVERNMENT.

TECHNICAL INSTRUCTOR.
(PAINTER AND DECORATOR)

required by the Ministry of Education to give instruction in painting and decoration work at the Yaba Trade Centre, Lagos, where work is predominantly practical in character and would be taught in well equipped workshops. The candidate will also be required to give classroom instruction and may also be called upon to take part in extra-mural activities of the institution. Candidate must have served a full apprenticeship as a Painter and Decorator, and be an experienced practical tradesman. He should possess City and Guilds Certificates in the trade or other equivalent qualifications. Experience of apprenticeship training or teaching would be an advantage. Candidates should not be under 25 years of age.

Appointment on contract for one tour of 12-18 months in the first instance with prospect of extension. Salary according to experience and qualifications in the scale £936-£1,554 per annum including Inducement Addition. Gratuity of £100-£150 per annum for satisfactory service. Outfit allowance of £60. Free passages for officer and wife. Liberal home and local leave on full pay. Children's allowances while separated. Quarters and income tax at low local rates.

Write for application forms and further particulars, giving age, qualifications and experience, to the Appointments Secretary, Federal Public Service Commission, Nigeria House, 9 Northumberland-avenue, London, W.C.2, quoting G.19/1.

FALKLAND ISLANDS
DEPENDENCIES SURVEY.

STEEL ERECTORS Required on contract for one tour of approximately nine months to erect steel framed aircraft hangar. Expedition leaves U.K. in October. Salary £450 a year. Free accommodation, clothing, food, cigarettes, etc., whilst at base. Candidates must be single and experienced in erection of steel framed buildings and in fixing galvanised corrugated steel sheeting and be able to rig and use common erection tackle and work from drawings. Ability to supervise and assist in setting out and constructing concrete foundations also desirable.

Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, qualifications and experience and quote M2B/51068/BH.

THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD NO MORE UGLY NAIL HEADS OR HAMMER MARKS

Inserted with a tool holding a pack of 50 nails at one loading.

Also the maker of the JIFFY wallboard bevelling and grooving tools.

Sold and manufactured by the Patentee

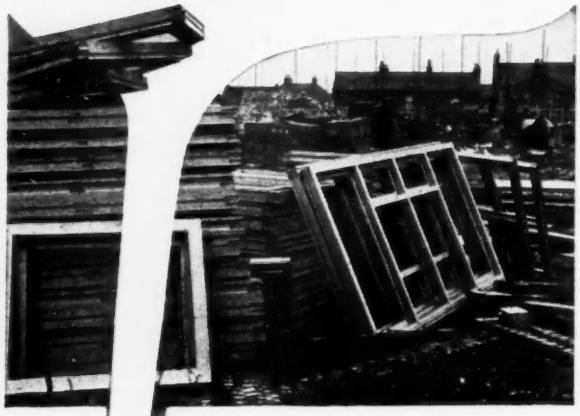
ERNEST CHALMER Ltd., SYDENHAM DAMEREL, TAVISTOCK, DEVON.

London Office: Phone: Milton Abbot 222

11, LUDGATE HILL, E.C.4. Phone: City 7238.

CUPRINOL

WATER REPELLENT WOOD PRESERVERS



CUPRINOL W.R. Clear and W.R. Green combine water repellency with the preservative properties of CUPRINOL, which have been proved in use for nearly fifty years. By stabilizing movement in timber, they minimise the swelling and shrinking of wood under changing moisture conditions.

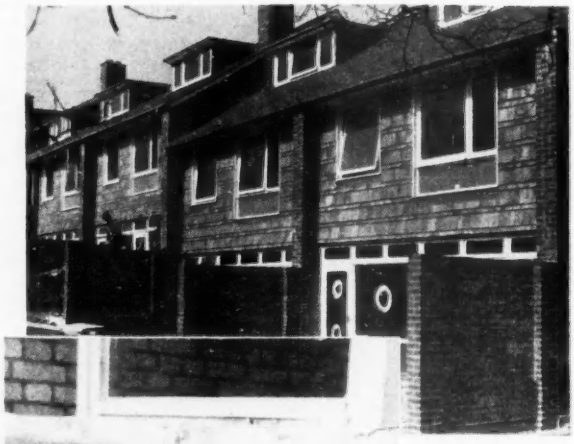
CUPRINOL W.R. grades also prevent attack by wood-boring beetles and rot; can be painted or varnished over. Easy to apply on site by dipping. Suitable for vertical boarded shop fascias, boarded cladding to buildings, doors, ladders, window frames and all joinery exposed on building sites prior to being built in.

THE CUPRINOL PRESERVATION CENTRE *offers technical advice on all preservation problems and can arrange Surveys, Reports and expert treatment of outbreaks of Dry Rot and Woodworm in any part of the country.*

CHECK SWELLING AND WARPING

Please write or telephone:—

Dept. 54, CUPRINOL LTD., Terminal House, Victoria, London, S.W.1. Tel: SLOane 9274



On these houses at Sydenham Hill, London, S.E. the roof slates were fixed with 1½ x 10 swg and the cedar wood shingles, on front and rear elevations, with 1½ x 14 swg Stonum aluminium alloy nails. The roofing contractor was Dorman Roofing Limited of Leyton.

ANOTHER FINE JOB!

Slates and Shingles firmly fixed with

STONUM ALUMINIUM ALLOY NAILS

The non-rusting and corrosion resistant qualities of Stonum aluminium alloy nails are commending themselves to more and more roofing contractors, especially when the need is for nails worthy of association with work and materials of the highest standard. This applies not only to slates and tiles, but also to shingles, where the stain-free property of Stonum nails is an important additional advantage.

"Stonum" aluminium alloy nails comply with the recommendations of the British Standard Code of Practice for Slating and Tiling and can be supplied either in bulk in sacks or in handy boxes of 1,000.

J. STONE & CO. (DEPTFORD) LTD.

ARKLOW ROAD . LONDON. S.E.14.
Telephone : Tideway 1202.

Also makers of copper and brass nails, yellow metal nails, rivets, washers, crampons, slating clips, etc.

STONE PLATT GROUP

GUIDE TO BUYING AND SPECIFICATION

Display Rate 30/- an inch

Name & address only 5/- ; extra words 3d. Bold Type, 7/- ; extra words 6d. Telephone Number 6d. extra

ASBESTOS CEMENT ROOFINGS
(London) Ltd.
All types Asbestos Cement Decking
Corrugated and Flat Sheets, Ridges, etc.
Asbestos Partition Board.
3-4, Hardwidge Street, London, S.E.1
Tel: HOPwood 2491/2

EXCEL ASPHALTE CO. LTD
Telephone: RIVERSIDE 6052 (5 lines)
BROADWAY CHAMBERS, HAMMERSMITH, LONDON, W6

Use Expandite Sealing Compounds, Seelastik, Asbestumen or Expandite Extrusions Seel-A-Strip R.B.200.
EXPANDITE LIMITED
Chase Road, London, N.W.10. Tel: ELGar 4321 (10 lines)

H.V. SMITH & CO. LTD
ASPHALT
ROOFING
TANKING
FLOORING
WALKDEN HOUSE, MELTON STREET, N.W.1.
EUSton 9292

SALTER, EDWARDS & CO. LTD
ASPHALTERS
LONDON, W.9 'Phone: LAD. 1039

ASPHALT
PERMANITE
LONDON — ADVance 4477 (20 lines)
BIRMINGHAM — BIRchfields 5041-2
MANCHESTER — BLAckfriars 9469

ODDI ASPHALTE
ROOFING SPECIALISTS
FLOORING
TANKING
TARPAVING
Phone: VANdyke 3644
255, GARRATT LANE, LONDON, S.W.18

SOUTHERN ASPHALT LTD
15 SHIP STREET • BRIGHTON
SUSSEX. Tel.: Brighton 24905
Mastic Asphalt & Felt Roofing

ACOUSTIC PANELS
"Seco" Selection Construction Co., Ltd. Langham 7931.
Bowaters Sales Co., Ltd.

AGGREGATES (HEAVY)
United Chemicals (London), Ltd.

AIR INLETS (AUTOMATIC)
W. G. PARSONS & SONS, BARBARA CLOSE, ROCHFORD, ESSEX. MANUFACTURERS OF THE "DRAUGHT-MASTER" AND "FLUE-MASTER" WARM FLOW AUTOMATIC AIR INLET-UNITS.

ALUMINIUM CORRUGATED SHEETS
Chalfont Clasps, Ltd.

ALUMINIUM PRODUCTS
NORTHERN ALUMINIUM COMPANY.
THE BRITISH ALUMINIUM CO., LTD.,

ALUMINIUM ROLLER SHUTTERS
J. TAYLOR (SYSTON), LTD., Janus Works, Albert Street, Syston, Leicester. Tel. Nos.: Syston 2133, and Manchester, Ringway 3996.

ALUMINIUM WALL PANELS
MARSLAND & CO., LTD., CONINGTON ROAD, LONDON, S.E.13. TEL.: LEE GREEN 7924 9971.

ANTI-CONDENSATION SHEETS
JABLO Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey.

ANTI-FREEZERS
Sealocrete Products, Ltd. Tretol, Ltd.

ARCHITECTURAL IRONMONGERY
Edward Farr, Ltd.

ARTIFICIAL STONE MANUFACTURERS
MALCOLM MACLEOD & CO., LTD., GLEN ROAD, WALTHAMSTOW, LONDON, E.17. TELEPHONE: COPPERMILL 1147-8.
ENFIELD STONE CO., LTD., GREEN STREET, BRIMSDOWN, ENFIELD, MIDDX. TEL.: HOWARD 2618.
CAMBRIDGE ARTIFICIAL STONE CO., LTD., 121B, MILL ROAD, CAMBRIDGE.

ASBESTOS CEMENT PRODUCTS
HARRISON & CO. (BUILDERS' MERCHANTS), LTD., LEYTONSTONE, LONDON, E.11. (LEY. 5851.) Corrugated and Flat Sheets, Rainwater and Flue Goods. (Supplied and fixed, or supplied only.)
ASBESTOS CEMENT & INSULATIONS LTD., 68, VICTORIA STREET, LONDON, S.W.1. Tel.: VICTORIA 9547-8-9.
HINE LIMITED, BEDFORD ROAD, LONDON, S.W.4. BRIXTON 1127.
Asbestos Cement Roofings (London), Ltd.
Atlas Stone Co., Ltd.
Expandite, Ltd.

ASPHALT
METROPOLITAN ASPHALTE CO., LTD., The, Boreham Wood, Herts. Tel.: Elstree 1152/3.
RUSSELL Asphalte Co., Ltd., The, 14-16, Bath Road, Eastbourne. Tel.: Eastbourne 4148.
ASPHALTIC (LONDON), LIMITED, 206, UPPER STREET, LONDON, N.1. TEL.: CANONBURY 5550.
THE IMPROVED ASPHALTE CO., LTD., 45/51, NEPTUNE STREET, S.E.16. TELEPHONE: BERMONDSEY 4080.
Associated Asphalte Co., Ltd.
Excel Asphalte Co., Ltd.
General Asphalte Co., Ltd.
Oddi Asphalte.
Paramount Asphalte, Ltd.
Permanite, Ltd.
Pitchmastic & Asphalte, (Manufacturing) Co., Ltd.
Previte & Co., Ltd.
Smith, H. V., & Co.
Southern Asphalt, Ltd.

ASPHALT PAVIORS
Wm. SALTER, Edwards & Co., Ltd., Hormead Wharf, Hormead Rd., Harrow Rd., London, W.9
General Asphalte Co., Ltd.
Metropolitan Asphalte Co., Ltd.
Neuchatel Asphalte Co., Ltd.

BARROW MAKERS
Acrow (Engineers), Ltd.
Randow Millman, Ltd.
Cayless Bros.
Stephens & Carter, Ltd.

BATHS
Clark, Hunt & Co., Ltd.
Nicholls & Clarke, Ltd.

BITUMEN SHEETING
Field & Palmer, Ltd.
McNeill, F., & Co., Ltd.
Permanite, Ltd.
Ruberoid Co., Ltd.

TRINIDAD LAKE ASPHALT
for all good building work
PREVITÉ & Co. LTD
CAPEL HOUSE
54 NEW BROAD ST., LONDON, E.C.2
Telephone : LONDON WALL 4313

ALUMINIUM FLASHING AND TRIM
in all Gauges and Grades. Preformed to Architects specification
Immediate Quotation without obligation.
Also in Copper and Zinc.
COLLINS & WHITE (ENGINEERS) LTD.
DELAMARE ROAD, CHESHUNT, HERTS.
Waltham Cross 23756 (Dial WS)

DANAURA
VENETIAN BLINDS BY SPECIALISTS
DANAURA LTD. 48 NOTTING HILL GATE
LONDON W.11. BAYswater 8721

RICHARDSON CHIMNEYS
BUILDERS OF
BRITAIN'S LARGEST BRICK CHIMNEY
450 ft. High x 20 ft. Internal Diam. at top.
P. C. Richardson & Co. (Middlesbrough) Ltd.
52-58 Fletcher Street, Middlesbrough
Telephone 45904/5

For all Joints in Concrete Structures and Waterproofing consult
EXPANDITE LIMITED
Chase Road, London, N.W.10. Tel: ELGar 4321 (10 lines)

BITUMINOUS SOLUTIONS & PAINTS

BRITISH BITUMEN EMULSIONS LTD., Dundee Road, Trading Estate, Slough, Bucks. Tel.: Slough 21261/6.
Deeside, Saltney, Nr. Chester. Tel.: Chester 23128.
91a, Lower Ashley Road, Bristol, 2. Tel.: Bristol 51380.
B.B.E. (SCOTLAND) LTD., 20, Maukinfauld Road, Glasgow, E.2. Tel.: Bridgeton 2791.

BITUMINOUS SOLUTION MAKERS, Etc.

EXPANDITE LTD., Chase Road, London, N.W.10.
"Cutrass" British Bye-Products, Ltd.
Dussek Bitumen & Tar-oleum, Ltd.
Maxwell, Andrew
Permanite, Ltd.
Ruberoid Co., Ltd.
Sealocrete Products, Ltd.
Tretol, Ltd.

BLOCKS (ROPE)

CHARLES BUTTERFIELD, LTD., SOBRAON WORKS, STRATFORD, E.15.

BLINDS, WINDOWS, Etc.

Danaura, Ltd.
Hirschhorn, E., & Co., Ltd.

BOILER SETTERS

Poulton & Son Ltd.
Nu-Way Heating Plants, Ltd.

BRICK MACHINERY MFRS.

SUTCLIFFE, Speakman & Co., Ltd., Leigh, Lancs. London office: 2, Caxton Street, Westminster, S.W.1.

BRICK HANDLING EQUIPMENT

Broads Manufacturing Co.

BRICKS

Accrington Brick & Tile Co., Ltd.
Eastwoods Sales, Ltd.
Midhurst Whites, Ltd.
Sussex & Dorking United Brick Co., Ltd.

BRICKS (FACING)

Walley, T. E., Ltd.

BRICKWORK REINFORCEMENT

"Brickforce" B.R.C. Engineering Co., Ltd.
Expanded Metal Co., Ltd.
"Bricktor" Johnson's R.C. Engineering Co., Ltd.

BUILDERS & CONTRACTORS

MULLEN & LUMSDEN, LTD., (See displayed advertisement.) MULLEN & LUMSDEN MAINTENANCE, LTD., 5, COPTIC STREET, W.C.1. (Telephone: MUSeum 3705.)
"Seco" Selection Construction Co., Ltd. Langham 7931.
Batty & Smith, Ltd.
Demolition and Construction Co., Ltd., The
Falkus Bros., Ltd.
Galbraith Bros., Ltd.
Gaze, W. H., & Sons, Ltd.
Greenaway & Sons, Ltd.
Higgs & Hill
Laing, J., & Son, Ltd.
Lovell, Y. J., & Son, Ltd.
Negus, W. & M., Ltd.
Rush & Tompkins, Ltd.
Tersons, Ltd.
Trollope & Colls, Ltd.
Truett & Steel, Ltd.

BUILDERS' EQUIPMENT

Kwikform, Ltd.

BUILDERS' IRONWORK

SAYGUS SCAFFOLDING, LTD., Camborne Road, Wandsworth, London, S.W.18. Tel.: Vandyke 2462/7361.
A. H. Allen (Engineers), Ltd.
Edward Farr, Ltd.

BUILDERS' MERCHANTS

C. COLLIN LTD., The Glass House, High Street, Croydon. Tel.: CRO 2134 (4 lines) and CRO 8321.
Clark, Hunt & Co., Ltd.
Eastwoods Sales, Ltd.
Nicholls & Clarke, Ltd.
Travis & Arnold, Ltd.

BUILDING PAPER

EXPANDITE LTD., Chase Road, London, N.W.10.
Davidson C., & Son, Ltd.

BUILDING SLABS

"Seco" Selection Construction Co., Ltd. Langham 7931.
"Marlith" Marley Tile Co., Ltd.

CASKS, BARRELS & WATER BUTTS

HAIG'S Cooperages, Ltd., Bank Chambers, Tower Bridge, Tooley Street, London, S.E.1.

CAST STONE

Celcon, Ltd.

CEMENT

Eastwoods Sales, Ltd.

CEMENT PAINTS

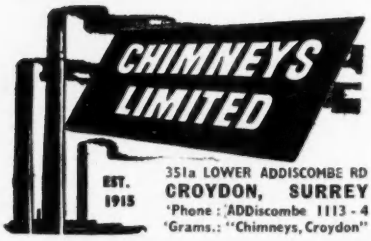
SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.
SEALOCRETE PRODUCTS LTD., Atlantic Works, Hythe Road, N.W.10. Tel.: Ladbroke 0015/6/7.

CHAINS & SLINGS

CHARLES BUTTERFIELD, LTD., SOBRAON WORKS, STRATFORD, E.15.

BLINDS
FOR ALL PURPOSES
E. HIRSCHHORN & CO. LTD.
FINSBURY WORKS, WOOD GREEN, N.22
Phone: BOWES PARK 3411
SHUTTERS
WOOD and STEEL

CHIMNEY SHAFTS
BOILER SETTINGS
CHIMNEY REPAIRS
TOPPING & LEGGAT
13 OLD PARK ROAD, W.13
'Phone: Palmers Green 3268
'Grams: "Smokechim, Wood"



EST. 1915
351a LOWER ADDISCOMBE RD
CROYDON, SURREY
'Phone: ADDiscombe 1113 - 4
'Grams.: "Chimneys, Croydon"

J. TETLEY & SON LTD.,
THE BREWERY, LEEDS
Concrete Hardening and Waterproofing Solution.
Makes the BEST of Concrete.
Write to:—CARTER INDUSTRIALS LTD,
Windsor House, Victoria Street, S.W.1.
Tel: ABBey 3741.

PALMERS TRAVELLING CRADLE & SCAFFOLD Co. Ltd.
London Address: 3 WOODSIDE GREEN, S.E.25
Tel: Addiscombe 7721-4
Northern Address 211, BOROUGH ROAD, MIDDLESBROUGH. Tel: Middlesbrough 3051.

STEPHENS & CARTER LTD
SCAFFOLDING CONTRACTORS
731-761, Harrow Road, N.W.10
Tel: LADbroke 1191 (7 lines)
HIRE · ERECTION · SALE

'IYDROSHANTI'
CONCRETE TOUGHENER AND WATERPROOFING COMPOUND
An Efficient Concrete Toughener
SPECIFY and USE
"IYDROSHANTI" for
Hardening Concrete
Waterproofing Concrete
Dampcoursing
Damp Walls
Repairing Concrete Walls etc.
E. WADE WILTON & SON
Planet Works, Houghley Lane, Bramley, Leeds
Grams: Wilton, Bramley, Leeds. Phone: Pudsey 3338

CHIMNEY BUILDERS & REPAIRERS

FURSE, W. J., & Co., Ltd. ("S" Dept.), Traffic St., Nottingham; also London, Manchester, Bristol.
Chimney Construction Co., Ltd., The
Chimneys, Ltd.
C. & M. Engineering Co., Ltd.
Edward Farr, Ltd.
Gray, J. W., & Son, Ltd.
Richardson, P. C. & Co (Middlesbrough), Ltd.
Topping & Leggatt

CHURCH SPIRE & TOWER RESTORERS

FURSE, W. J., & Co., Ltd. ("S" Dept.), Traffic St., Nottingham; also London, Manchester, Bristol.
GRAY, J. W., & SON, LTD., Tudor House, 1, Princeton St., Bedford Row, W.C.2. Tel.: Cha. 8701-2, and 13, Castle Street, Salisbury. Sal. 2750.

CILLS, COPING, SHELVES, Etc.

BROUGHTON MOOR Green Slate Quarries, Ltd., Coniston, Lancashire.

CLADDING

"Seco" Selection Construction Co., Ltd. Langham 7931.
B.I.P. Reinforced Products, Ltd.

CLAMPS (STEEL ADJUSTABLE)

Acrow (Engineers), Ltd.

CLINKERS & ASHES

Cloke, Geo. E., Ltd.

CLOTHES LINES (FRAME TYPE)

CROMPTON COLLING, LTD., Engineers, Frinton-on-Sea, Essex.

CLOTHES LOCKERS

Edward Farr, Ltd.

CLOTHES LOCKERS (STEEL)

Abix (Metal Industries), Ltd

COAL BUNKERS (CONCRETE)

Associated Building Constn. Dev. (Raynes Park) Ltd.

COLOURS FOR CEMENT, CONCRETE ROUGH CAST

SEALOCRETE PRODUCTS LTD., Atlantic Works, Hythe Road, London, N.W.10. Manufacturers of Sealantone Products.
Freeman, Joseph, Sons & Co., Ltd.
Sal-Ferricite & Trading Co., Ltd.

CONCRETE CONSTRUCTION

Helical Bar & Engineering Co., Ltd.

CONCRETE FLOOR DUSTPROOFING

SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.
Adamite Co., Ltd.
Byrd, A. A. & Co., Ltd.
Kerner-Greenwood & Co., Ltd.
Lillington, Geo., & Co., Ltd.
Sealocrete Products, Ltd
Steel-Crete, Ltd.
Szerelmey, Ltd.
Tretol, Ltd.
Watco (Sales) Ltd

CONCRETE FLOOR SURFACER

Colombus-Dixon Organisation, The

CONCRETE MIXERS

DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel.: Hatfield Peveral 311 (12 lines). Night Tel.: Hatfield Peveral 319.
HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).
WARD, THOS. W., LTD., ALBION WORKS, SHEFFIELD. P.O. BOX 141.
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.
Acrow (Engineers), Ltd.
Millars Machinery Co., Ltd.
Vales Plant Register Ltd.

CONCRETE PILING

WEST'S Piling & Construction Co., Ltd., Bath Road, Harmondsworth, Middlesex. Telephone: Skyport 5222.
Lind, Peter, & Co., Ltd
Simplex Concrete Piles Ltd.

CONCRETE POURING SKIPS

ABELSON & CO. (ENGINEERS), LTD., SHELDON, BIRMINGHAM. Tel.: SHELDON 2424.

CONCRETE REINFORCEMENT

Expanded Metal Co., Ltd.
Jones, T. C. & Co., Ltd.
Helical Bar & Engineering Co., Ltd.

CONCRETE SHUTTERING

Acrow (Engineers), Ltd.
Byrd, A. A., & Co.
Mills Scaffold Co. Ltd.

CONCRETE TOUGHENER

Carter Industrials, Ltd.
Ironite Co., Ltd.
Lillington, Geo. & Co., Ltd.
Sal-Ferricite & Trading Co., Ltd.
Watco (Sales), Ltd.
Wade, Wilton, E., & Son

NICOLL, DAWSON & HUMPHRIES LTD
Scaffolding Contractors
1, SOUTHERN GROVE
MILE END E.3
Phone: ADVance 1927

SAYGUS SCAFFOLDERS LTD.
Specialists in Travelling Cradles and Tubular Scaffolding
1 Camborne Rd., S.W.18 Tel.: VANdyke 2462/7361

SHEPHERD'S BUSH 2377
CRADLE - SCAFF LTD
6, 7 & 8, PERCY PLACE,
SHEPHERD'S BUSH, W.12

GET IN TOUCH WITH... BCM
SLAB AND GRANULATED CORK
Trade Mark
BRITISH CORK MILLS LIMITED
"B.C.M." House, 9 Hobart Place, London, S.W.1
Tel.: SLOane 7207-9 And at GLASGOW · DUBLIN · LISBON

DEMOLITION HARDCORE
CLINKER AND ASHES,
SAND, BALLAST, ETC.
GEO. E. CLOKE LTD.
In Assn. with HUDSONS DEMOLITION BRANCH
"Elmsted", Neasden Lane, N.W.10 Gladstone 4296/7

FELT ROOFING
PERMANITE
LONDON — ADVance 4477 (20 lines)
BIRMINGHAM — BIRchfields 5041-2
MANCHESTER — BLAckfriars 9460

ABIX STEEL CYCLE STANDS
26 types. Catalogue on request
ABIX (METAL INDUSTRIES) LTD.
FACTORY EQUIPMENT SPECIALISTS
Pool Road · West Molesey · Surrey
Phone: MOLesey 4361/3 Grams ABIX EAST MOLESEY

FENCING
SUPPLY and FIX or SUPPLY ONLY
BERNARD HOLT LTD.
Moorbridge Works, Bestwood Road,
Bulwell,
NOTTINGHAM
(Phone: 27-1461)

CONCRETE WATERPROOFING

SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.

Expandite, Ltd.
Sealocrete Products, Ltd.
"Stic B" Paint Sales Ltd.
Tretol, Ltd.

CONSTRUCTIONAL STEELWORK

"Seco" Selection Construction Co. Ltd., Langham 7931.

C. & S. Construction Co., Ltd.
Croggon & Co., Ltd.
Edward Farr, Ltd.

CONTRACTORS' PLANT

DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel.: Hatfield Peverel 311 (12 lines). Night Tel.: Hatfield Peverel 319.

HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

PARDIX PLANT, LTD., 62/72, High Street, Cheshunt, Herts. Telephone: Waltham Cross 23496 and 24913.

WARD, THOS. W., LTD., ALBION WORKS, SHEFFIELD, P.O. BOX 141.

AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

Abelson & Co. (Engineers), Ltd.
Acrow (Engineers), Ltd.
Chamberlain Industries, Ltd.
Clifton, I., & Sons, Ltd.
Cohen, Geo., Sons & Co., Ltd.
Cox, H., & Sons (Plant Hire), Ltd.
Dandridge, A. F., Ltd.
Jones, T. C., & Co., Ltd.
Lewis & Lewis, Ltd.
Mills Scaffold Co., Ltd.
Vales Plant Register, Ltd.

CONTRACTORS' TOOLS

Clifton, I., & Sons, Ltd.

COPPER CYLINDERS

Manchester Tinning Co., Ltd.

COPPER TUBES

Bolton, Thomas, & Sons, Ltd.

CORK SLAB MAKERS

British Cork Mills, Ltd.

CORRUGATED SHEETS

Braby, Fredk., & Co., Ltd.
Croggon & Co., Ltd.
Jones, T. C., & Co., Ltd.

COWLS

Colt, W. H. (London), Ltd.

CRADLE (TRAVELLING)

BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551 (3 lines), WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367 (2 lines).

AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

PETER COX CRADLING CO., Grosvenor 2023.

Acrow (Engineers), Ltd.
Cradle-Scaff, Ltd.
Nicholl, Dawson & Humphries, Ltd.
Palmers Travelling Cradle & Scaffold Co., Ltd.
Saygus Scaffolders, Ltd.
Stephens & Carter, Ltd.
Tellok Appliances, Ltd.

CRANE MANUFACTURERS

A.C.E. Machinery, Ltd.
British Hoist & Crane Co., Ltd.
Caswell Cranes & Erection, Ltd.
Cohen, Geo., Sons & Co., Ltd.
Delta (Plant), Ltd.
Morgan, A., & Co.
Record Tower Cranes (G. R. V. Briere)
Ward, Thos. W., Ltd.

CRANES (FOR HIRE)

CASWELL Cranes & Erection, Ltd., Grove Works, Hammersmith Grove, W.6. Tel.: Riverside 5203-4.

Cohen, Geo., Sons & Co., Ltd.
Jones, T. C., & Co., Ltd.
Lewis & Lewis, Ltd.
Vales Plant Register, Ltd.

CURTAIN WALLING (ALUM & STEEL)

John Williams of Cardiff, Ltd.

CYCLE PARKS

Abix (Metal Industries), Ltd.
Edward Farr, Ltd.
Odoni, Alfred A., & Co., Ltd.
Stelcon, Ltd.

DAMP-PROOF COURSES

BRITISH BITUMEN EMULSIONS LTD., Dundee Road, Trading Estate, Slough, Bucks. Tel.: Slough 21261/6.

Deeside, Saltney, Nr. Chester. Tel.: Chester 23128.

91a, Lower Ashley Road, Bristol, 2. Tel.: Bristol 51380.

B.B.E. (SCOTLAND) LTD., 20, Maukinfauld Road, Glasgow, E.2. Tel.: Bridgeton 2791.

EXPANDITE, LTD., Chase Road, London, N.W.10.

SMITH, H. V., & CO., LTD., 24 Ashley Place, Westminster, S.W.1.

Anderson, D., & Sons, Ltd.
Blackwells & National Roofings, Ltd.
General Asphalte Co., Ltd.
Kerner - Greenwood & Co., Ltd.
Limmer & Trinidad Lake Asphalt Co., Ltd.
McNeill, F., & Co., Ltd.
Newtonite, Ltd.
Permanite, Ltd.
Ruberoid Co., Ltd.

What is a Sani-Snake"?
It has a flexible steel shaft working through a feeding block with a spiral spring grab at one end and the driving mechanism at the other. You turn a handle and the "Sani-Snake" creeps along the pipe, round all bends, clearing all obstructions. The "Sani-Snake" is made in various sizes and lengths suitable for its job. You save its cost many times over in free and unobstructed pipes and drains.
Write for illustrated leaflet
Made specially to work round traps and bends
Charles C. Grey
20/21, Tottenham Mews, London, W.1

Use Expandite Joint Fillers and Sealers, Flexcell, Pil-astic Elastite, Vertistrip, Plastiflow and Expandite Mechanical appliances
EXPANDITE LIMITED
Chase Road, London, N.W.10 Tel.: ELGar 4371 (10 lines)

THE BETTER INTERWOVEN FENCING
Joiner made from imported softwoods with slats ¼" full thick— the strongest available. Discounts to Builders, etc. Brochure free.

B. Leander Products Ltd., Burton-on-Trent. *Phone: 5030*

FENCING
CONTRACTORS
W. A. SKINNER & Co. Ltd. (Dept. B)
CITY WHARF, LONG DITTON, SURREY
Telephone: Emberbrook 1960-1961 (2 lines)

WIRE FENCING
CROGGON & CO. LTD ESTABLISHED 1835
London · Liverpool · Glasgow · Colnbrook
Croggon

FENCING
OF ALL TYPES
SUPPLIED & ERECTED BY THE IVANHOE FENCING COMPANY
Arcadia Works
55 Whitton Road, Hounslow
HOUnslow 3140

CONCRETE FLOOR SEAL
(OIL & DUST PROOF)
FLUID GLASS PRODUCTS LTD
YEOMAN ST., LONDON, S.E.8
Telephone: BER. 3237

OXYCHLORIDE JOINTLESS FLOORING
Terrazzo and Mosaic Work
P.V.C. Floor Tiles
"MAGART" LIMITED
21, Kilburn Lane, London, W.10. Tel.: LAD 6488.

DECORATIVE PAINTING CONTRACTORS
British Bitumen Emulsions, Ltd.

DEMOLITION
Cloke, Geo. E., Ltd.

DISTEMPERS
Morse, A. T., Sons & Co., Ltd.

DOOR SLIDING GEAR
ALDAM, E. Hill, & Co., (All systems), Britannic Works, Red Lion Road, Tolworth, Surbiton, Surrey. ELMbridge 0090 (6 lines).
Ellard Sliding Door Gears, Ltd.

DOOR SPRING REPAIRS
AVENUE SPRING CO. (DOOR SPRINGS), LTD., BARCLAYS BANK CHAMBERS, 1, KINGSLAND HIGH STREET, LONDON, E.8. Tel.: CLISSOLD 0564/5.
THE MAINTENANCE CO., LTD., 146a, LEA BRIDGE ROAD, CLAPTON, LONDON, E.5. Telephone: AMHERST 0388.

DOORS
JABLO Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey.

DOORS (STEEL)
Clark, Hunt & Co., Ltd. Haywards, Ltd.
Edward Farr, Ltd.

DOORS (WOODEN), Etc.
F. HILLS & SONS, LTD., NORTON ROAD, STOCKTON-ON-TEES.
Austins of East Ham, Ltd. Linden Doors, Ltd.
Bryce, White & Co., Ltd. Sadd, John
Cattle, R., Ltd. Shapland & Petter, Ltd.
Leaderflush, Ltd. Travis & Arnold, Ltd.

DRAIN CLEARING TOOLS
Grey, Charles C.

DRAINAGE ENGINEERS
Burn Bros., Ltd.

DUCTS WORKS
Braby, Fredk., & Co., Ltd. Edward Farr, Ltd.
C. & M. Engineering Co., Ltd. Greenwood's and Airvac Ventilating Co., Ltd.
Clark, Hunt & Co., Ltd. Harvey, G. A., & Co., (London), Ltd.

DUST SHEETS
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.

ELECTRIC DRILLS
Kango Electric Hammers, Ltd.

ELECTRIC GENERATING SETS
WORKMAN REED & COMPANY, LTD., BEACON WORKS, HEWISH, BRISTOL. TEL.: YATTON 3207 & 3316.

ELECTRIC HAMMERS
HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines.)
Kango Electric Hammers, Ltd.

ELECTRICAL ACCESSORIES
British Insulated Callender's Cables, Ltd. M. K. Electric, Ltd.
General Electric Co., Ltd. Philips Electrical, Ltd.

ESCALATORS
Hall, J. & E., Ltd.

EXCAVATORS
DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel. No.: Hatfield Peverel 311 (12 lines). Night Tel.: Hatfield Peverel 319.
HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines.)

EXPANSION JOINTING FOR CONCRETE ROADS
SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.
SMITH, H. V., & Co., Ltd., 24 Ashley Place, Westminster, S.W.1.
TRETOL SERVICISED, LTD., 2, Caxton Street, London, S.W.1.
Expandite, Ltd. McNeill, F., & Co., Ltd.
Felts and Damp Courses, Ltd. Permanite, Ltd.

FENCING (WOOD)
Croggon & Co. Penfold Fencing, Ltd.
Darlington Fencing, Ltd. Skinner, W. A., & Co., Ltd.
Holt, Bernard.

FIBROUS PLASTERWORK
Allied Guilds

BRUCE MARTYN LTD
INDUSTRIAL FLOORING
Stirling House, Barnet By-pass, Boreham Wood, Herts. Telephone: Elstree 3781/2

FLOORING SPECIALISTS
PARQUET, WOOD BLOCK, STRIP, RUBBER, CORK, COMPOSITION, RESURFACING.
30 years' experience
G. C. CONSTRUCTIONAL FLOORING CO. LTD.
CAMBRIDGE WORKS, STATION YARD, THE QUADRANT, RICHMOND, SURREY RICHMOND 8481/2/3

FLOORING
Wood Block, Parquet, Strip, Wood Mosaic, Rubber, Cork and Marley Tiles, Repairs and Resurfacing, Estimates Free
DE GAY FLOORING LTD.
67, MIDDLETON AV., GREENFORD, MIDDX.
Phone: WAX. 5263, CAN 2470.

ELTEX
ARMOURED PAVING TILES FOR FACTORY FLOORS
E. J. ELGOOD LTD.
London, S.E.8. Tel.: BER 1144 (7 lines)

FLOORING
STRIP & BLOCK
PARQUET OVERLAY
THERMOPLASTIC
VINYL & CORK
Ex Stock
•
SUPPLY ONLY
or LAID and POLISHED
OLD FLOORS RENOVATED
Technical Advice and Surveys
Labour Saving Maintenance
WILLIAM THORNTON & Sons Ltd.
38 Wellington Rd., Liverpool 8
Tel.: Lark Lane 1921/4 Grams: Thornpool, Liverpool

HIGH CLASS JOINERY
•FLUSH DOORS•
SHAPLAND AND PETTER LTD
RALEIGH WORKS
BARNSTAPLE

FELT ROOFINGS
ALLWEATHER ROOFING, LTD., 8, ST. FRANCIS CLOSE, PETTS WOOD, KENT. Tel.: ORPINGTON 21141.
OVERALL-ROOF COVERINGS, 221, RAILWAY VIADUCT, GROVE GREEN ROAD, LEYTONSTONE, E.11. TEL.: LEYTONSTONE 8195 & 7270.
Blackwells & National Roofings, Ltd. General Asphalte Co., Ltd.
Permanite, Ltd.

FIRE-CHECK DOORWAYS
Linden Doors, Ltd.

FIRE ESCAPE STAIRCASES
Braby, Fredk., & Co., Ltd. Gardiner, J., & Co., Ltd.
Clark, Hunt & Co., Ltd. Haskins
Edward Farr, Ltd. Heywards, Ltd

FIREPLACE SURROUNDS (TILED)
Eastwoods Sales, Ltd.

FIRES
Allied Ironfounders, Ltd. Ideal Boilers & Radiators Ltd.

FLAGSTAFF MAKERS & ERECTORS
CHARLES BUTTERFIELD, LTD., SOBRAON WORKS, STRATFORD, E.15.
GRAY, J. W., & Son, Ltd., Tudor House, 1, Princeton St., Bedford Row, W.C.2. Tel.: Cha 8701-2.

FLASHING & CAPPINGS (ALUM & STEEL)
RICHARD CHANTRY & CO., LTD., Faraday Way, St. Mary Cray, Orpington, Kent. Orpington 20307/8.

FLOOR-CENTRES
Acrow (Engineers), Ltd. Rapid Metal Developments, Ltd.

FLOOR SANDERS
HORSLEY, SMITH & HEWETSON, Hayes, Middlesex. Tel.: 2931. Marfleet, Hull. Tel.: 13880.

FLOOR SEALERS
SEALOCRETE PRODUCTS, LTD., Atlantic Works, Hythe Road, N.W.10. Tel.: Ladbroke 0015/6/7.
Fluid Glass Products, Ltd. Steel-Crete, Ltd.
Watco (Sales), Ltd.

FLOORING ADHESIVES
BRITISH BITUMEN EMULSIONS LTD., Dundee Road, Trading Estate, Slough, Bucks. Tel.: Slough 21261/6.
Deeside, Saltney, Nr. Chester. Tel.: Chester 23128.
91a, Lower Ashley Road, Bristol, 2. Tel.: Bristol 51380.
B.B.E. (SCOTLAND) LTD., 20, Mankinfauld Road, Glasgow, E.2. Tel.: Bridgeton 2791.
Tretol Associated Products, Ltd.

FLOORING (COMPOSITION)
G. C. Constructional Flooring Co., Ltd. Modern Tile & Floor Co., Ltd.
Martyn, Bruce, Ltd. Thornton, William & Sons, Ltd.
Paramount Asphalte, Ltd.

FLOORING CONTRACTORS
THE LONDON CRYSTAL WINDOW CLEANING CO., LTD., 60, LANCASTER MEWS, LANCASTER GATE, LONDON, W.2.
General Asphalte Co., Ltd. Martyn, Bruce, Ltd
Neuchatel Asphalte Co., Ltd.
G. C. Constructional Flooring Co., Ltd. Permanite, Ltd.
Kerr, Robert, & Sons (Flooring), Limited Philip Flooring Co., Ltd., The
The London Flooring Co. Vigers Bros., Ltd.

FLOORING (CORK)
Armstrong Cork Co., Ltd. Elgood, E. J., Ltd.
S. Bennett & Son (Wood Flooring), Ltd.

FLOORING (FIREPROOF)
FAWCETT CONSTRUCTION CO., LTD., 117, Victoria Street, London, S.W.1. Victoria 5845.
Girlings' Ferro-Concrete Co., Ltd. Kleine Co., Ltd.
Siegwart Floor Co., Ltd.
Helical Bar & Engineering Co., Ltd. Smith's Fireproof Floors, Ltd.

FLOORING (HOLLOW TILE)
FAWCETT CONSTRUCTION CO., LTD., 117, Victoria Street, London, S.W.1. Victoria 5845.
Helical Bar & Engineering Co., Ltd. Kleine Co., Ltd.

FLOORING (INDUSTRIAL)
Elgood, E. J., Ltd. Permanite, Ltd.
General Asphalte Co., Ltd. Sealocrete Products, Ltd.
Martyn, Bruce, Ltd. Tile Floors (Industrial), Ltd.

T & G WOOD BLOCKS, STRIP, WOOD MOSAIC, ALUFLOOR, TILES & FIGURED OAK PARQUETRY
THE LONDON FLOORING COMPANY FOR **GUARANTEED** FLOORS
15 & 17 CLOUDESLEY ROAD · LONDON N.1 Telephone: Terminus 6791
MACHINE SURFACING & POLISHING OF EXISTING FLOORS · REPAIRS etc.

FLOORING (JOINTLESS)
Ebner, Jos. F., (1953), Ltd.
General Asphalte Co., Ltd.
Magart, Ltd.
Martyn, Bruce, Ltd.
Philip Flooring Co., Ltd., The
Thornton, William, & Sons, Ltd.

FLOORING (PLASTIC & THERMO PLASTIC)
British Mouldex, Ltd.

FLOORING (RUBBER)
RUBBER FLOORING LTD., Bell Works, Harefield, Middlesex. Tel.: HARefield 2123-5 & 3292.
SORBO LIMITED, sole manufacturers of the "Sorbo" Wheelbarrow and Truck Tyres, Sorbo Works, Woking. Tel.: Woking 966 (5 lines). Tel. Add.: "Sorbo Woking."
Runnymede Rubber Co. Ltd.

FLOORING (STEEL)
Edward Farr, Ltd.

FLOORING SUPPLIES
COURTIN, LTD., 9a, Commerce Road, Wood Green, N.22. Bowes Park 0044/0045.
Thornton, William, & Sons, Ltd.

FLOORING (WOOD, WOOD BLOCK, PARQUET)
S. Bennett & Son (Wood Flooring), Ltd.
Calders, Ltd.
Ebner, Jos. F., (1953), Ltd.
De Gay Flooring, Ltd.
Hough Brothers, Ltd.
Leaderflush, Ltd.
London Crystal
Philip Flooring Co. Ltd., The
Stevens & Adams, Ltd.
Vigers Bros., Ltd.

FLOORS (PRESTRESSED)
Costain Concrete, Ltd.

FLUSH DOORS
Linden Doors, Ltd.

FORMWORK (SPECIAL)
Kwikform, Ltd.

FRENCH POLISHING
NORMAN SEARLE, Albion Works, Singleton Street, London N.1. Tel.: CLErkenwell 6823.

FROST PROOFERS
British Bitumen Emulsions, Ltd.

GALVANISED GOODS
Croggon & Co., Ltd.
Braby, F., & Co., Ltd.
Clark, Hunt & Co., Ltd.
Edward Farr, Ltd.
Gardiner, J., & Co., Ltd.
Nicholls & Clarke, Ltd.

GARAGE DOORS
Linden Doors, Ltd.

GAS WATER-HEATERS (GEYSERS)
Ascot Water Heaters, Ltd.

GATES, RAILINGS (IRON), STAIRWAYS, Etc.
HASKINS, Blackhorse Lane, Walthamstow, London, E.17.
Boulton & Paul, Ltd.
Clark, Hunt & Co., Ltd.
Croggon & Co., Ltd.
Edward Farr, Ltd.
Gardiner, J., & Co., Ltd.
Haywards, Ltd.
Nicholls & Clarke, Ltd.
Potter Rax, Ltd.

GATES (WOOD)
AUSTINS OF EAST HAM, LTD.
Wyckham Blackwell, Ltd.

GLASS FIBRE (LAMINATED ROOF LIGHTS)
ALLAN BLUNN, LIMITED, 29, CRAVEN STREET, LONDON, W.C.2. Tel.: WHItehall 8801-2-3.
B.I.P. Reinforced Products, Ltd.
(Rilite) Rubber Improvement, Ltd.

GLASS MFRS. & MERCHANTS
Clark, James, & Eaton, Ltd.
Farmiloe, Geo., & Sons, Ltd.
Luxfer, Ltd.
Nicholls & Clarke, Ltd.
Pilkington Bros., Ltd.
Pugh Bros., Ltd.

GLASS (STAINED, PAINTED)
Farmiloe, Geo., & Sons, Ltd.
Goddard & Gibbs
Luxfer, Ltd.
Morris Singer Co., Ltd.
Nicholls & Clarke, Ltd.
Pugh Bros., Ltd.

GLAZING
C. COLLIN, LTD., The Glass House, High Street, Croydon. Tel.: CRO 2134 (4 lines) and CRO 8321.
Clark, James & Eaton, Ltd.
Farmiloe, Geo., & Sons, Ltd.
Furniss & Co., Ltd.
Haywards, Ltd.
Luxfer, Ltd.
Mellowes & Co., Ltd.
Newman & Watson, Ltd.
Nicholls & Clarke, Ltd.
Paragon Glazing Co., Ltd.
J. Pearson & Sons (London), Ltd.
Pugh Bros., Ltd.

GRANITE (BROKEN & CHIPPINGS)
COX, H., & Sons, Ltd., 33, Southampton Way, Camberwell, London, S.E.5.

GRANITE (POLISHED)
Art Marbles Stone & Mosaic Co., Ltd.
G. Dunkley
Mander & Germain, Ltd.

GRANITE SETTS & KERB
F. J. DANGERFIELD & CO., LTD., 261a, Finchley Road, London, N.W.3. HAMpstead 8044/8

ELCO
CORK TILE FLOORING
E. J. ELGOOD LTD.
LONDON, S.E.8
BER. 1144 (7 lines)

G. DUNKLEY
ESTABLISHED 1794
SPECIALISTS IN
COLOURED MARBLE & GRANITE
WALL LINING • FLOORINGS
CLADDING OF BUILDINGS
SHOP FRONTS • CHIMNEY PIECES
BATHROOMS
Architects' Enquiries Welcomed
Estimates Free
238 HIGH ROAD, EAST FINCHLEY
LONDON N.2
TUDOR 1536

ELCOLIN
LINOLEUM FLOORING
E. J. ELGOOD LTD.
LONDON, S.E.8
BER. 1144 (7 lines)

OSLO AND GOTHENBERG POLE LADDERS
WOOD AND ALUMINIUM EXTENSION LADDERS . STEPS . TRESTLES . etc.
E. FARRAR LTD.
Ladder & Truck Manufacturers
Well Lane, Halifax Tel. 2917
SEND FOR LISTS

LADDERS
STEPHENS & CARTER LTD
731-761, Harrow Road, N.W.10
TIMBER & ALUMINIUM LADDERS

LUXFER
PAVEMENT LIGHTS
(framed in ferro-concrete or iron)
FLOOR LIGHTS
ROOF LIGHTS
DOME LIGHTS
LANTERN LIGHTS
STALLBOARD LIGHTS
SKYLIGHTS
CEILING LIGHTS
LEADED LIGHTS
FIRE-RESISTING GLAZING
METAL CASEMENTS
ROOF GLAZING
ARCHITECTURAL METAL WORK
TEL.: ELG. 7292
WAXLOW RD. HARLESDEN N.W.10

GRANOLITHIC PAVING
MALCOLM MACLEOD & CO., LTD., GLEN ROAD, WALTHAMSTOW, LONDON, E.17. TELEPHONE: COPPERMILL 1147/8.
GRANO-METALLIC Paving and Plastering Co., Ltd., 557, Lea Bridge Road, London, E.10.

GUTTERS (CAST IRON)
HILLS BROS, (City 3094).

GUTTERS (CONCRETE)
Finlock Gutters, Ltd.

GUTTERS (HEAVY PRESSED STEEL)
E. STEPHENS & SON, LTD., 58-66, Bath Street, London, E.C.1. Clerkenwell 1731.
Edward Farr, Ltd.

HEATING APPARATUS
Clark, Hunt & Co., Ltd.
Ideal Boilers & Radiators, Ltd.
Nicholls & Clarke, Ltd.

HEATING & VENTILATING
Newman & Watson, Ltd.
Clark, Hunt & Co., Ltd.
Watkin Heating Co., Ltd., The

HOISTS
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.
A.C.E. Machinery, Ltd.
British Hoist & Crane Co., Ltd.
Morgan, A., & Co.
Ward, Thos. W., Ltd.

INCINERATORS
Braby, Fredk., & Co., Ltd.
Edward Farr, Ltd.
Harvey, G. A., & Co (London), Ltd.

INSURANCE
Builders' Accident Insurance, Ltd.

INSULATING MATERIALS
JABLO Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey.
"Seco" Selection Construction Co., Ltd. Langham 7931.
British Plaster Board, Ltd., The
Cape Asbestos Co., Ltd., The
Celotex, Ltd.
Dutton, Leonard, & Sons
Gyproc Products, Ltd.
McNeill, F., & Co., Ltd.
"Marith" Marley Tile Co., Ltd.
"Paroventa" Paramount Asphalte, Ltd.
Permanite, Ltd.
Stramit Boards, Ltd.
Sundeala Boards Co., Ltd.
Thermacoust, Ltd.

IRON & STEEL PROTECTION
"Galvafrold" Secomastic, Ltd.

IRON & STEEL STOCKHOLDERS
HALL BROTHERS, (WEST BROMWICH), LTD., Eagle Works, Greets Green, West Bromwich. Tel.: Tipton 1011 (10 lines). Telegraphic address: EAGLE WEST BROMWICH.
Clark, Hunt & Co., Ltd.
Dunlop & Ranken, Ltd.
Jones, T. C., and Co., Ltd.

KITCHEN UNITS
Austins of East Ham, Ltd.

JOINERY
Austins of East Ham, Ltd.
Cattle, R., Ltd.
Edmonds & Co., Ltd.
Fosters (Woodworkers), Ltd.
James Joinery
Linden Doors, Ltd.
Sadd, John, & Son, Ltd.
Shapland & Petter, Ltd.

LADDER MAKERS (EXTENSION, Etc.)
HENRY L. COCKLE, LTD., 9, TOTHILL STREET, WESTMINSTER, LONDON, S.W.1. Tel.: ABBEY 4471-2.
PODMORE WORKS LIMITED, 769, 775, Garratt Lane, London, S.W.17. (Also Steps, Trestles.) Tel.: Wimbledon 7622.
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.
Cavless Bros.
Farrar, E., Ltd.
Stephens & Carter, Ltd
Scaffolding (Gt. Britain), Ltd.

LADDERS (LOFT)
HENRY L. COCKLE, LTD., 9, TOTHILL STREET, WESTMINSTER, LONDON, S.W.1. Tel.: ABBEY 4471-2.

LADDERS STEEL
Edward Farr, Ltd.

LAMINATED PLASTICS
Bakelite, Ltd.
Berite, Ltd.
Holoplast, Ltd.
Warite, Ltd.

LAMPS
Randow Millman, Ltd.

LEADS, OIL COLOURS, SIZE
Farmiloe, Geo., & Sons.
Nicholls & Clarke, Ltd Ltd.

LEAD (ORNAMENTAL), Etc.
STONER & SAUNDERS, LTD., 20, Woodfield Road, Paddington, W.9. Tel.: CUNningham 3321-2-3.

LEAD (SHEET & PIPE)
Farmiloe, Geo., & Sons, Ltd.

SIMPLEX CONCRETE PILES LTD.

CAST IN SITU

PALACE CHAMBERS, BRIDGE STREET, WESTMINSTER, S.W.1

Please Note Change of Address and Telephones Telephone Nos : TRAFALGAR 1167/8/9

LEADED LIGHT MANUFACTURERS
Farmiloe, Geo., & Sons, Ltd. Goddard & Gibbs
Nicholls & Clarke, Ltd.

LIFTING GEAR
CHARLES BUTTERFIELD, LTD., SOBRAON WORKS, STRATFORD, E.15.
A. H. Allen (Engineers), Ltd
Clifton, I., & Sons, Ltd. Moore, W. & E., Ltd.

LIFTS
HAMMOND & CHAMPNESS, LTD., Gnome House, Walthamstow, London, E.17.
LONDON LIFT CO., 103, WORSHIP STREET, LONDON, E.C.2.
JENSEN LIFTS, LTD., (LIFT AND SPECIALIST ENGINEERS), REGent 2593, Keith House, 133, Regent Street, London, W.1
Bennie Lifts, Ltd. Penrose Lifts, Ltd.
Dennison, Kett & Co., Ltd. Pickerings, Ltd.
Hall, J. & E., Ltd. Steven, A. & P., Ltd.

LIGHTING DESIGN SERVICE
Philips Electrical, Ltd.

LIGHTNING CONDUCTORS
ELLIOTT, A. W. (Steeplejacks), & Co., Ltd.
GRAY, J. W., & SON, LTD., Tudor House, 1, Princeton St., Bedford Row, W.C.2. Tel.: Cha. 8701-2, and 13, Castle Street, Salisbury. Sal. 2750.
WM. & R. W. BACON, LTD., 55, REDBRIDGE LANE, ILFORD, ESSEX. Tel.: CRESCENT 5347.
Purse, W. J., & Co., Ltd.

LIGHTWEIGHT STAGING
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

LINOLEUM
Catesbys, Ltd. Elgood, E. J., Ltd.

LOCKS, LATCHES, Etc.
Adams, Robert, (Victor), Ltd.

MACHINERY & PLANT
DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel.: Hatfield Peverel 311 (12 lines). Night Tel.: Hatfield Peverel 319.
Acrow (Engineers), Ltd. Lewis & Lewis, Ltd.
Chamberlain Industries, Ltd. Liner Concrete Machinery Co., Ltd.
Danckaerts Woodworking Machinery, Ltd. Millars Machinery Co., Ltd.
Dandridge, A. F., Ltd. Scaffolding (Gt. Britain), Ltd.
Jones, T. C., Ltd.

MARBLE
JOHN STURBS (MARBLE & QUARZITE), LTD., MERSEY WORKS, SMITHDOWN LANE, LIVERPOOL, 7. Tel.: ROYAL 4951.
C. WALKER & CO., LTD. BATTERSEA : 2071.
Art Marbles Stone & Mosaic Co., Ltd. G. Dunkley Mander & Germain, Ltd.

MECHANICAL KEYING FOR RENDERINGS
SEALOCRETE PRODUCTS, LTD., Atlantic Works, Hythe Road, N.W.10. Tel.: Ladbroke 0015/6/7.

METAL WINDOWS REPAIRS
METAL WINDOW RENOVATORS, BARCLAYS BANK CHAMBERS, 1, KINGSLAND HIGH STREET, LONDON, E.8. Tel.: CLISSOLD 0564/5.
THE MAINTENANCE CO., LTD., 146a, LEA BRIDGE ROAD, CLAPTON, LONDON, E.5. Tel.: AMHERST 0388.

METAL WORK
F. STEPHENS & SON, LTD., 58-66, Bath Street, London, E.C.1. Clerkenwell 1731.
Potter Rax, Ltd.

MORTAR PLASTICISERS
CLODOL INDUSTRIES LTD.
SEALOCRETE PRODUCTS, LTD., Atlantic Works, Hythe Road, N.W.10. Tel.: Ladbroke 0015/6/7.
SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.
Lillington, Geo., & Co., Ltd. Sika, Ltd.
Tretol, Ltd.

MOSAIC & TERRAZZO PAVING
Cope & Co., Ltd. Marbolith Flooring Co., Ltd.

OVERHEAD DOOR GEAR & GARAGE DOORS
AUSTINS OF EAST HAM, LTD.

POLLOCK BROTHERS (London) LTD.
PLASTERERS & GRANOLITHIC WORKERS
11, Green Lane, Stoneycroft, Liverpool 13 — 473, New Cross Road, London, S.E.14
Phone: Stoneycroft 5351/2/3 Phone: Tideway 4438/9

ASBESTUMEN, MULSEAL, PLASTIJOINT
EXPANDITE LIMITED
Chase Road, London, N.W.10. Tel ELGar 4321 (10 lines)

ARMOCRETE
PRECAST CONCRETE FLOORS
LITERATURE ON REQUEST
JOHN COOKE & SON (HUDD.) LTD.
QUEENS MILL ROAD, HUDDERSFIELD
Phone : 2900

HY-RIB
combined shuttering and reinforcement
long span metal lathing
HY-RIB DIVISION Truscon Limited 35-41 Lower Marsh, London SE1 Telephone WATerloo 6922

ASPHALT FLOORING
PERMANITE
LONDON — ADVance 4477 (20 lines)
BIRMINGHAM — BIRchfields 5041-2
MANCHESTER — BLAckfriars 9469

ROYDE & TUCKER LTD. Clissold 2737
Patentees & Manufacturers of all types of SASH PULLEYS & CHAIN
ROYTUC REGD. STOKE NEWINGTON RD., LONDON, N.16

E. PARKINSON (LONDON) LTD.
SLATE MERCHANTS
SLATING, TILING & ASBESTOS ROOFING CONTRACTORS
Phone: STA. HILL 3211-2
189 HIGH ROAD, S. TOTTENHAM, N.15

CRADLE-SCAFF LTD
6, 7 & 8, PERCY PLACE
SHEPHERD'S BUSH, W.12
Phone: SHEphard's Bush 2377 (4 lines)

PALMERS TRAVELLING CRADLE & SCAFFOLD Co. Ltd
London Address: 3 WOODSIDE GREEN, S.E.25 Tel: Addiscombe 7721-4
Northern Address: 211, BOROUGH ROAD, MIDDLESBROUGH. Tel: Middlesbrough 3051.

NICOLL, DAWSON & HUMPHRIES LTD
Scaffolding Contractors
1, SOUTHERN GROVE MILE END E.3
Phone: ADVance 1927

OFFICE EQUIPMENT
STEEL EQUIPMENT DIVISION OF G. A. HARVEY & CO. (LONDON), LTD., CENTRAL SALES OFFICE, 60 ROCHESTER ROW, LONDON, S.W.1. VICTORIA 5631.
Clifton, I., & Sons, Ltd. Sankey-Sheldon, Ltd.
Libraco, Ltd.

PAINT & VARNISH MFRS.
DRYNAMELS, LTD., SHAFTMOOR LANE, HALL GREEN, BIRMINGHAM, 28. Tel.: SPRINGFIELD 4481/2/3/4.
SEALOCRETE PRODUCTS, LTD., Atlantic Works, Hythe Road, N.W.10. Tel.: Ladbroke 0015/6/7.
Blundell, Spence & Co., Ltd. Morse, A. T., Sons & Co., Ltd.
Dixon's Paints, Ltd. Nicholls & Clarke, Ltd.
Duresco Products, Ltd. Pinchin Johnson & Co.
Farmiloe, Geo., & Sons, Ltd. Silexine Paints, Ltd.
Hubbuck, Thomas, & Son, Ltd. Sissons Bros., & Co., Ltd.
Lillington, Geo., & Co., Ltd. "Stic B" Paint Sales Ltd.
Tretol, Ltd.

PAINTING CONTRACTORS
Alfred Bagnall & Sons, Ltd. Cook, A. V., & Co., Ltd.
Bayliss, Ernie, Ltd. Decorative Painting Contractors, Ltd.

PARTITIONS
AUSTINS OF EAST HAM, LTD.
Stramit Boards, Ltd.

PARTITIONS (CELLULAR CORE)
JABLO Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey.

PARTITIONS (METAL)
John Williams of Cardiff, Ltd.

PARTITIONS (STEEL)
Abix (Metal Industries), Ltd. Edward Farr, Ltd.

PAVEMENT LIGHTS
HAYWARDS, LTD., Union Street, Borough, London, S.E.1. Phone: Waterloo 6035 (5 lines)
JOHN HEALEY (London), Ltd., 32, Shaftesbury Avenue, London, W.1. Ger. 2610.
Luxfer, Ltd.

PELMETS
VENETIAN-BLIND SPECIALISTS (Seawright), LTD., STATION APPROACH, WALTHAM CROSS, HERTS. Telephone : WS 23582.

PERSPEX CORRUGATED
HARRISON & CO. (BUILDERS' MERCHANTS), LTD., B.R. GOODS DEPOT, LEYTONSTONE, LONDON, E.11. (LEY. 5851.)

PIPES (CONCRETE)
Eastwood Sales, Ltd.

PLASTERS
HARRISON & CO. (BUILDERS' MERCHANTS), LTD., LEYTONSTONE, LONDON, E.11. (LEY. 5851.) Carlite, Paristone, Thistle, etc., Plasterboards, etc.
Gyproc Products, Ltd. Gypsum Mines, Ltd.

PLASTERERS
Pollock Bros. (London), Ltd. Campbell Horne & Co., Ltd.

PLASTERING
APEX PLASTERING, LTD., 2, HEREFORD ROAD, EALING, W.5. TEL.: EAL 1233.

PLATFORM STAGINGS
ROULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18, VANDYKE 6551, 3 lines. WORKS: ROOTH STREET, BIRMINGHAM, 21. NORTHERN 9367, 2 lines.

PLUMBING CONTRACTORS
J. A. WILLIS & CO., 47, ELDON ROAD, N.22. BOW 4413.
Newman & Watson, Ltd.

PLUMBERS' BRASSWORK
Farmiloe, Geo., & Sons, Ltd.

PLYWOOD
William T. Eden (London), Ltd. Travis & Arnold, Ltd.

POLES
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

ORLIT PIONEERS OF PRECAST REINFORCED CONCRETE FRAMES AND FLOORS. EGHAM 3601/4

PORTABLE AIR COMPRESSORS & ROAD BREAKERS

BROOM & Wade, Ltd., Engineers, High Wycombe, Bucks.

HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

Cox, H., & Sons (Plant Hire), Ltd.

PORTABLE BUILDINGS

AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

Clifton, I., & Sons, Ltd. Podmore Works, Ltd. Marley Tile Co., Ltd.

PORTABLE POWER TOOLS

ARTHUR DRYSDALE & CO., LTD., 58, Commerce Road, Wood Green, London, N.22. Tel.: Bowes Park 7221. New, Used, Bought, Sold, Exchanged, Hired.

Cole, E. R., Ltd.

PRECAST CONCRETE MFRS.

MALCOLM MACLEOD & CO., LTD., GLEN ROAD, WALTHAMSTOW, LONDON, E.17. TELEPHONE: COPPERMILL 1147/8.

CAMBRIDGE ARTIFICIAL STONE CO., LTD., 121B, MILL ROAD, CAMBRIDGE.

Atlas Stone Co., Ltd. Concrete, Ltd. Costain Concrete Co., Ltd. Finlock Gutters, Ltd. Helical Bar & Engineering Co., Ltd. Kleine Co., Ltd.

PRECAST FLOORING & ROOFING

Helical Bar & Engineering Co., Ltd. John Cooke & Son (Huddersfield), Ltd.

PREFABRICATED CONSTRUCTIONS

"Seco" Selection Construction Co., Ltd. Langham 7931.

PROPS, STRUTS (STEEL)

BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM, 21. NORTHERN 9367, 2 lines.

AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

MABEY & JOHNSON, LTD., MANUFACTURERS, 54, VICTORIA STREET, S.W.1. VICtoria 8025-8. Manchester, Broughton 3959.

Acrow (Engineers), Ltd. Mills Scaffold Co., Ltd. Randow Millman, Ltd. Scaffolding (Gt. Britain), Ltd. Steel Scaffolding Co., Ltd.

PROTECTIVE CLOTHING

AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.

Clifton, I., & Sons, Ltd. Randow Millman, Ltd.

PUMPS, PUMPING ENGINEERS

HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

Greenwich Pump & Plant Co., Ltd. Lewis & Lewis, Ltd. Millars Machinery Co., Ltd. Vales Plant Register Ltd.

PUTTY MANUFACTURERS

Farmiloe, Geo., & Sons, Ltd. Hubbuck, Thomas, & Son, Ltd.

QUARZITE

JOHN STUBBS (MARBLE & QUARZITE), LTD., MERSEY WORKS, SMITHDOWN LANE, LIVERPOOL, 7. Tel.: ROYAL 4951.

RACKING (STEEL)

Abix (Metal Industries), Ltd. Edward Farr, Ltd.

RAINWATER GOODS

Braby, F., & Co., Ltd. Farmiloe, Geo., & Sons, Ltd. Edward Farr, Ltd. Harvey, G. A., & Co. (London), Ltd. Nicholls & Clarke, Ltd.

RAWLPLUGS

Rawlplug Co., Ltd.

RECONSTRUCTED STONE

Ferro-Concrete (Shepperton), Ltd. Girlings' Ferro-Concrete Co., Ltd.

R.C. PRECAST FLOORING & ROOFING

ORLIT, LIMITED, VICARAGE ROAD, EGHAM, SURREY. EGHAM 3601/4.

Celcon, Ltd. Concrete, Ltd. Costain Concrete Co., Ltd. Girlings' Ferro-Concrete Co., Ltd. Helical Bar & Concrete Engineering Co., Ltd.

REINFORCEMENT STEEL

Expanded Metal Co., Ltd. Helical Bar & Engineering Co., Ltd. Johnson's R.C. Engineering Co., Ltd. Jones, T. C., & Co., Ltd. Truscon, Ltd. R. C. (Steel), Ltd.

STEPHENS & CARTER LTD
SCAFFOLDING CONTRACTORS
731-761, Harrow Road, N.W.10
Tel: LADbroke 1191 (7 lines)
HIRE · ERECTION · SALE

New Life in Old Stones
A specialist service in stonework
NEW STONE & RESTORATION LTD.,
33, Sloane Street, London, S.W.1
BELgravia 6271/2

STONE RESTORATION AND CLEANING
PETER COX & PARTNERS LTD.
33 NORTH ROW, LONDON, W.1
Mayfair 1306/5076

STEELWORK
"WHEN YOU NEED IT"
C & S CONSTRUCTION CO. LTD.
STRUCTURAL ENGINEERS
STEEL STOCKHOLDERS
ISLEWORTH, MIDDX.
Phone: ISLeworth 4155 (7 lines)

FURSE
STEEPLEJACKS, CHIMNEY BUILDERS AND REPAIRERS, CHURCH RESTORERS, LIGHTNING PROTECTION
W. J. FURSE & CO. LTD., 10 Traffic St., NOTTINGHAM
LONDON, MANCHESTER & BRISTOL

EDWARD FARR LTD.
Napier Works, London, E.6
Tel: Gra. 3431/3
Bridge Works Wickford 2380
Structural Steelwork
Plate Fabrications
Steel Flooring
Railings and Gates
Rolled, Forged or Cold Pressed Rings of all Sections and Diameters

SZERELMEY
ESTABLISHED OVER 100 YEARS
Restoration, Preservation and Cleaning,
273-277, Rotherhithe New Road, London, S.E.16
Phone: Bermondsey 3094

REINFORCED CONCRETE ENGINEERS & CONTRACTORS

BRICKTOR Reinforcements.—Johnson's Reinforced Concrete Engineering Co., Ltd., Artillery House, Artillery Row, London, S.W.1.

HILLS Structures & Foundations, Ltd., Heather Park Drive, Wembley, Middlesex.

ORLIT, LIMITED, VICARAGE ROAD, EGHAM, SURREY. EGHAM 3601/4.

FAWCETT CONSTRUCTION CO., LTD., 117, Victoria Street, London, S.W.1. Victoria 5845.

INDENTED BAR & CONCRETE ENGINEERING CO., LTD., 171, VICTORIA STREET, WESTMINSTER, S.W.1. TEL.: VICTORIA 1642 (2 lines).

British Reinforced Concrete Engineering Co., Ltd. Expanded Metal Co., Ltd. Girlings' Ferro-Concrete Co., Ltd. Helical Bar & Engineering Co., Ltd. Jones, T. C., & Co., Ltd. Kleine Co., Ltd. Lind, Peter, & Co., Ltd. Simplex Concrete Piles Ltd.

RIVETS (ROOFING, CEILING)

Tucker, Geo., Eyelet Co., Ltd.

ROAD-MAKING EQUIPMENT

BROOM & Wade, Ltd., Engineers, High Wycombe, Bucks.

HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

Vales Plant Register, Ltd.

ROLLING SHUTTER MFRS.

SHUTTER CONTRACTORS, LTD., LINCOLN WORKS, GREAT CAMBRIDGE ROAD, ENFIELD. TEL. NO.: ENFIELD 8383/4/5.

J. TAYLOR (SYSTON), LTD., Janus Works, Albert Street, Syston, Leicester. Tel. Nos.: Syston 2133 and Manchester, Ringway 3996.

ROOF INSULATION

JABLO Plastics Industries, Ltd., Mill Lane, Waddon, Croydon, Surrey.

"Seco" Selection Construction Co., Ltd. Langham 7931.

British Hermeseal, Ltd. Stramit Boards, Ltd.

ROOF LIGHTS

ALLAN BLUNN, LIMITED, 29, CRAVEN STREET, LONDON, W.C.2. Telephone: WHItehall 8801-2-3.

Farmiloe, Geo., & Sons, Ltd. Haywards, Ltd. Mellowes & Co., Ltd. Paragon Glazing Co., Ltd. (Rilite) Rubber Improvement, Ltd.

ROOF PANELS

"Seco" Selection Construction Co., Ltd. Langham 7931.

ROOFING COMPOUNDS

SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: Victoria 3693.

"RITO" & "RITOLASTIC," ANDREW MAXWELL DIVISION (*The Liverpool Borax Co., Ltd.*) Maxwell House, St. Paul's Square, Liverpool, 3.

"Aquaseal," Berry Wiggins & Co., Ltd. "Bituseal" Sealocrete Products, Ltd. "Cuirass," British Bye-Products, Ltd. Expandite, Ltd. Farmiloe, Geo., & Sons, Ltd. Permanite, Ltd. Ruberoid Co., Ltd. Tretol, Ltd.

ROOFING CONTRACTORS

ASBESTOS Cement Roofings (London), Ltd., 3-4, Hardwidge Street, London, S.E.1.

Asphalte (London), Ltd. Berry Wiggins & Co., Ltd. Eastwoods Specialists, Ltd. Excel Asphalte Co., Ltd. General Asphalte Co., Ltd. McNeill, F., & Co., Ltd. Neuchatel Asphalte Co., Ltd. Parkinson, E. (London), Ltd. Permanite, Ltd. Roberts, Adlard & Co., Ltd. Salter, Edwards & Co., Ltd. Southern Asphalt, Ltd.

ROOFING FELT

Blackwells & National Roofings, Ltd. Felts & Damp Courses, Ltd. Permanite, Ltd. Podmore Works, Ltd. Ruberoid Co., Ltd.

ROOFINGS (VARIOUS BRANDS)

Anderson, D., & Sons, Ltd. "Corroplast" Holoplast, Ltd. "Lion" McNeill, F., & Co., Ltd. Permanite Ltd. (Permanite "Blanco," "Ruraflex"). Ruberoid Co., Ltd.

SAFES & STRONG-ROOM DOORS

STEEL EQUIPMENT DIVISION OF G. A. HARVEY & CO. (LONDON), LTD., CENTRAL SALES OFFICE, 60 ROCHESTER ROW, LONDON, S.W.1. VICTORIA 5631.

WITHERS, Samuel, & Co., Ltd., Park Works, West Bromwich. Tel.: West Bromwich 0122.

SAND & GRAVEL MERCHANTS
COX, H., & Sons, Ltd., 33, Southampton Way, Camberwell, London, S.E.5.
Eastwoods Sales, Ltd.

SANDERS (ELECTRIC)
HINE LIMITED, BEDFORD ROAD, LONDON, S.W.4. BRIXTON 1127.

SANITARY FITTINGS & ENGINEERS
TIMMINS & FOULKES, LTD., King Street, Dudley, Worcs.
Burn Bros. (London), Ltd. Greenwood & Hughes, Ltd.
Clark, Hunt & Co., Ltd. Haywards, Ltd.
Eastwoods Sales, Ltd. Nicholls & Clarke, Ltd.
Farmiloe, Geo., & Sons, Ltd.

SASH CHAINS & SASH PULLEYS
RHODES CHAINS, LTD., Carlisle House, 8, Southampton Row, London, W.C.1. Telephone: CHAncery 9377 (3 lines).
Royde & Tucker, Ltd.

SCAFFOLDING
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM, 21. NORTHERN 9367, 2 lines.
Kwikform, Ltd.

SEALING COMPOUNDS
SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: Victoria 3693.
EXPANDITE, LTD., Chase Road, London, N.W.10.

SECTIONAL BUILDINGS
Clifton, I., & Sons, Ltd.

SHEETERS (ASBESTOS CEMENT)
HINE LIMITED, BEDFORD ROAD, LONDON, S.W.4. BRIXTON 1127.

SHEET METAL WORKERS
E. STEPHENS & SON, LTD., 58-66, Bath Street, London, E.C.1. Clerkenwell 1731.
Clark, Hunt & Co., Ltd. Harvey, G. A., & Co. (London), Ltd.
Gardiner, J., & Co., Ltd.
Edward Farr, Ltd.

SHELTERS
Clifton, I., & Sons, Ltd.

SHELVING (STEEL)
Abix (Metal Industries), Ltd. Edward Farr, Ltd.

SHINGLES (CEDAR WOODS)
Colt, W. H. (London), Ltd. McLellan Rawson & Co., Ltd.

SHOP & OFFICE FITTERS
JAMES WHITE (SHOPFITTERS), LTD., TEAM VALLEY TRADING ESTATE, GATESHEAD 11, CO. DURHAM. Tel.: LOW FELL 76077.
Edmonds, A., & Co., Ltd. Pollard, E., & Co., Ltd.

SHORES, ADJUSTABLE
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.
Acrow (Engineers), Ltd. Steel Scaffolding Co., Ltd.
Scaffolding (Gt. Britain), Ltd.

SHUTTERS, REVOLVING & ROLLING
HOWARD BROS., LTD., ABBEY MANUFACTURING ESTATE, MOUNT PLEASANT, WEMBLEY, MIDDX. Telephone: WEMBLEY 5015.
HASKINS "Rolador," Blackhorse Lane, Walthamstow, London, E.17.
Dennison, Kett & Co., Ltd. Mather & Platt, Ltd.
Haywards, Ltd. Shutter Contractors, Ltd.
Hirschhorn, E., & Co., Ltd. Taylor, J. (Syston), Ltd.

SIEVES, RIDDLES & SCREENS
GREENING, N., & Sons, Ltd., Britannic Works, Hayes, Middlesex.

SLATE & TILE MERCHANTS
BROUGHTON MOOR Green Slate Quarries, Ltd., Coniston, Lancashire.
ETRIDGE, J. J., Junr., Bethnal Green Slateworks, London, E.2.
Parkinson, E. (London), Ltd.

SLATE (CILLS, COPING SHELVES, Etc.)
BROUGHTON MOOR Green Slate Quarries, Ltd., Coniston, Lancashire.
INIGO JONES & CO., TUDOR SLATE WORKS, GROELSON, CAERNARVON. TEL.: LLANWYNDA 242.

SLOTTED ANGLE (STEEL)
Abix (Metal Industries), Ltd.

SPLITHEADS
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.

RECONDITIONED AND REDRESSED EX-RAILWAY TARPAULINS
Specially selected, repaired, complete with eyelets and new tie-ropes
Satisfaction fully guaranteed . Immediate delivery
Carriage Paid . Remittance with order

SIZE	Reconditioned and Redressed both Sides	
10′ x 7′	£1.10.0	each
14′ x 10′	£3.0.0	„
20′ x 14′	£6.10.0	„
SIZE	**Repaired and Reconditioned Tarpaulins**	
20′ x 14′	£5.0.0	each
14′ x 10′	£2.5.0	„
10′ x 7′	£1.0.0	„

Only best quality linseed oil dressing used
S. & J. FITTON (TARPAULINS) LTD.
COCKHEDGE LANE, WARRINGTON. Phone: 35233 (2 lines

TILING?
Write or phone:—
COPE & CO. LTD.
8, GRAY'S INN ROAD, HOLBORN, W.C.1
Telephone: HOL 7541

MINTON HOLLINS LTD
MINTON TILES FOR WALLS & FIREPLACES
Patent Tile Works, Stoke-on-Trent

CRADLE-SCAFF LTD
TRESTLES AND PULLEY BLOCKS
also available for HIRE.
6, 7 & 8, PERCY PLACE, LONDON, W.12
SHEPHERD'S BUSH 2377 (4 lines)

Boyle's Patent "Air Pump" **Ventilator**
OVER TWO MILLION IN USE
ROBERT BOYLE & SON
VENTILATING ENGINEERS
OYSTER LANE, BYFLEET, SURREY
Tel. BYFleet 4376

"AQUAREP"
for 100% Waterproof Concrete
"FLUTOL B"
for Damp-proofing Interiors
Send for Details.
DAMP-PROOFING LTD.
DEPTFORD, LONDON, S.E.8
TIDeway 1486-7

PALMERS TRAVELLING CRADLE & SCAFFOLD Co. Ltd
London Address: 3 WOODSIDE GREEN, S.E.25
Tel: Addiscombe 7721-4
Northern Address: 211, BOROUGH ROAD, MIDDLESBROUGH. Tel: Middlesbrough 3051.

GEORGE LILLINGTON & Co., Ltd., Willow Lane, Mitcham, Surrey. No. 2 METALLIC LIQUID
A colourless solution for waterproofing exterior walls.

SLIDING DOOR GEAR
ALDAM, E. Hill, & Co., (All Systems) Britannic Works, Red Lion Road, Tolworth, Surbiton, Surrey. ELMbridge 0090 (6 lines).
ELLARD SLIDING DOOR GEARS, LTD., Works Road, Letchworth, Herts. Tel.: 613/4.
HENDERSON, P. C., LTD., ROMFORD, ESSEX (Complete range). Tel.: Ingrebourne 4111 (8 lines).
KING, Geo. W., Ltd., (All Systems), Argyle Works, Stevenage, Herts. Stevenage 440 (10 lines).

STAGE EQUIPMENT
Fosters (Curtains), Ltd.

STEEL CHIMNEY SHAFTS
C. & M. Engineering Co., Ltd. Gray, J. W., & Son, Ltd.
Edward Farr, Ltd.

STEEL LOCKERS
STEEL EQUIPMENT DIVISION OF G. A. HARVEY & CO. (LONDON), LTD., CENTRAL SALES OFFICE, 60 ROCHESTER ROW, LONDON, S.W.1. VICTORIA 5631.
Edward Farr, Ltd.

STEEL MOULDS FOR CONCRETE PRODUCTS
Acrow (Engineers), Ltd.

STEEL OFFICE & FACTORY EQUIPMENT
STEEL EQUIPMENT DIVISION OF G. A. HARVEY & CO. (LONDON), LTD., CENTRAL SALES OFFICE, 60 ROCHESTER ROW, LONDON, S.W.1. VICTORIA 5631.
Sankey-Sheldon, Ltd.

STEEL SCAFFOLDING See also Tubular Scaffolding
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.
Cradle-Scaff, Ltd. Palmers Travelling Cradle & Scaffold Co., Ltd.
Nicholl, Dawson & Humphries, Ltd. Stephens & Carter, Ltd.
Tellok Appliances, Ltd.

STEEL SHUTTERING
Acrow (Engineers), Ltd. Kwikform, Ltd.
Rapid Metal Developments, Ltd.

STEEL SHUTTERS
HOWARD BROS., LTD., ABBEY MANUFACTURING ESTATE, MOUNT PLEASANT, WEMBLEY, MIDDX. Telephone: WEMBLEY 5015.
HASKINS "Rolador," Blackhorse Lane, Walthamstow, London, E.17.
SHUTTER CONTRACTORS, LTD., LINCOLN WORKS, GREAT CAMBRIDGE ROAD, ENFIELD. TEL. NO.: ENFIELD 8383/4/5.
J. TAYLOR (SYSTON), LTD., Janus Works, Albert Street, Syston, Leicester. Tel. Nos. Syston 2133 and Manchester, Ringway 3996.
Potter Rax, Ltd.

STEEL STOCKHOLDERS
John Williams of Cardiff, Ltd. C. & S. Construction Co., Ltd.

STEEPLEJACKS
GRAY, J. W. & SON, LTD., Tudor House, 1, Princeton St., Bedford Row, W.C.2. Tel.: Cha 8701-2, and 13, Castle Street, Salisbury Sal 2750.
Furse, W. J., & Co., Ltd.

STONE, GRANITE, Etc.
BROUGHTON MOOR Green Slate Quarries, Ltd., Coniston, Lancashire.
JOHN STUBBS (MARBLE & QUARZITE), LTD., MERSEY WORKS, SMITHDOWN LANE, LIVERPOOL 7. Tel.: Royal 4951.

STONE CLEANING & RESTORATION
NEONORE STONE CLEANING COMPANY, 39, BRIXTON ROAD, S.W.9. Telephones: RELiance 3111 (5 lines).
Peter Cox & Partners, Ltd. New Stone & Restoration, Ltd.
The London Stone Cleaning & Restoration Co., Ltd. Reparations-Dreyfus, Ltd.
Neonore Industries, Ltd. Szerelmey, Ltd.

STRUCTURAL STEELWORK
MEASURES BROS. (1911), LTD.
SANDS, GEO., & SONS, LTD., COLWICK, NOTTINGHAM.
NORTHARC ORGANISATION, LTD., 260, Langham Road, West Green, London, N.15. Phone: BOWes Park 3757 & 7548.
A. H. Allen (Engineers), Ltd. C. & S. Construction Co., Ltd.
Austin, James & Sons, (Dewsbury), Ltd. Croggon & Co., Ltd.
Booth, John & Sons (Bolton), Ltd. Dunlop & Ranken
Boulton & Paul, Ltd. Edward Farr Ltd.
Braby, F., & Co., Ltd. Gardiner, J., & Co., Ltd
Braithwaite & Co., (Engrs.), Ltd. Haywards, Ltd.
Clark, Hunt & Co., Ltd. Jones, T. C., & Co., Ltd.
Keay, E. C. & J., Ltd
Ludwell & Co., Ltd.

SURFACING COMPOSITION (CEMENTITIOUS)
Pyrok, Ltd.

SURVEYORS' INSTRUMENTS
Hilger & Watts, Ltd.

TANKING
PERMANITE, LTD., 455, OLD FORD ROAD, LONDON, E.3. ADVANCE 4477 (10 lines).
General Asphalte Co., Ltd.

TANK LAGGING UNITS
Stramit Boards, Ltd.

TANKS, CISTERNS, CYLINDERS, Etc.
Braby, F., & Co. Ltd.
Braithwaite & Co. (Engrs.), Ltd.
C. & M. Engineering Co., Ltd.
Croggon & Co., Ltd.
Edward Farr, Ltd.
Farmiloe, Geo., & Sons, Ltd.
Harvey, G. A., & Co (London), Ltd.
Mather & Platt, Ltd.
Nicholls & Clarke, Ltd

TAPS
Evans, F. H., & Co., Ltd.

TAPS (MIXING)
Walker, Crosweller & Co., Ltd.

TAR-PAVING CONTRACTORS
General Asphalte Co., Ltd.

TARPAULINS
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.
Clifton, I., & Sons, Ltd.
Fitton, S. & J., (Tarpaulins), Ltd.
Podmore Works Ltd.
Smith, John, & Co., (London), Ltd.

TERRAZZO
PRECAST TERRAZZO, BILDMERCH, LTD., CATFORD, S.E.6. HIT. 4798 & LEE 0849.

TILES (FLOOR AND WALL)
STANBURYS TILING COMPANY, 42, BRADFORD ROAD, DEWSBURY.
"Accotile" Cork Co., Ltd.
Allied Brick & Tile Works, Ltd.
British Art Tile Co., Ltd.
Armstrong
Carter & Sons (London), Ltd.
Carter (Brockley), Ltd.
Cope & Co., Ltd.
Marley Tile Co., Ltd.

TILES (ROOFING)
Eastwoods Sales, Ltd.
Essex Tile & Concrete Co., Ltd.
Marley Tile Co., Ltd.
Walley, T. E., Ltd.

TIMBER
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.
Anderson, C. F., & Son, Ltd.
Bloore, W., & Son, Ltd.
Fry, W. S., Ltd.
Gliksten, J., and Son, Ltd.
Horsley, Smith & Co., Ltd.
Morris, M. A., Ltd.
Phoenix Timber Co., Ltd.
Reuben, M. & J., Ltd.
Sadd, John & Co., Ltd.
Travis & Arnold, Ltd.
Vigers, Ltd.

TOWER CRANES DISTRIBUTORS
DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel. No.: Hatfield Peverel 311 (12 lines). Night Tel.: Hatfield Peverel 319.
Delta, (Plant), Ltd.
Record Tower Cranes (G. R. V. Briere).

TUBULAR SCAFFOLDING
BOULTON SCAFFOLDING LIMITED, LONDON DEPOT, PUTNEY BRIDGE ROAD, S.W.18. VANDYKE 6551, 3 lines. WORKS: BOOTH STREET, BIRMINGHAM 21. NORTHERN 9367, 2 lines.
AND YOUNGMAN OF COURSE, Wandsworth Works, Wandsworth Road, London, S.W.8. MACaulay 2233.
PETER COX CRADLING CO., Grosvenor 2023.
Acrow (Engineers), Ltd.
Boulton Tubular Structures, Ltd.
Cradle-Scaff, Ltd.
Essex Steel Scaffolding Co., Ltd.
London & Midland Steel Scaffolding Co., Ltd.
Mills Scaffold Co., Ltd.
Tellok Appliances, Ltd.
Palmer's Travelling Cradle & Scaffold Co., Ltd.
Randow Millman, Ltd.
Scaffolding (Gt. Britain), Ltd.
Steel Scaffolding Co., Ltd.
Stephens & Carter, Ltd.
Turner Scaffolding, Ltd.

TOMO
DOUBLE GLAZED
'Picture' WINDOWS
Tomo stock-size horizontal pivot-hung windows have excellent thermal efficiency values and sound reduction properties. Made of best quality softwood, ready-primed, to B.S.644
5'11½" wide x 4'0½": £25.0.0. nett.
4'0½" x 4'0½" high £22.10.0. nett.
(ex works)
AVAILABLE FROM STOCK!
Full details sent on request:
TOMO TRADING CO. LTD, Cowley Peachey, Uxbridge, Middx. Telephone: West Drayton 3751
British Made

VALVES (THERMOSTATIC MIXING)
Walker, Crosweller & Co., Ltd.

VENEERS
Gliksten, J., & Son, Ltd.

VENTILATORS
Boyle, Robert, & Son.

VENTILATING, Etc.
Boyle, Robert, & Son.
Clark, Hunt & Co., Ltd.
Colt Ventilation, Ltd.
Edward Farr, Ltd.
Greenwood's & Airvac Ventilating Co., Ltd.
Harvey, G. A., & Co., (Ldn.), Ltd.
Haywards, Ltd.
Keith Blackman, Ltd.
Newman & Watson, Ltd.

VERMICULITE
A. R. & W. CLEAVER, LTD., Wood Street, Northampton.
DUPRE VERMICULITE, LTD., Friars House, 39/41, New Broad Street, London, E.C.2. Tel. No.: London Wall 5026.
Dohm, Ltd.
Pyrok, Ltd.

WALLBOARD MAKERS
Berite, Ltd.
Bowaters Building Boards, Ltd.
Brandt's, Wm., (Wallply), Ltd.
British Plaster Board, Ltd., The
Cape Asbestos Co., Ltd., The
Celotex, Ltd.
Creffield & Co., Ltd.
Gliksten, J., & Son, Ltd.
"Gyproc" Products, Ltd.
"Royal" Spencer, Lock & Co., Ltd.
Sundeala Board Co., Ltd.
Tretex Acoustics, Ltd.
"Weyroc" The Airscrew Co., & Jicwood, Ltd.

WALLBOARD IMPORTERS
William T. Eden (London), Ltd.

WALL-LININGS
Stramit Boards, Ltd.

WALLBOARD STOCKISTS
Anderson, C. F., & Son, Ltd.
Fry, Walter S., Ltd.

WATER HEATERS
Ascot Gas Water Heaters, Ltd.
Aidas Electric, Ltd.

WATERPROOFING EMULSIONS
British Bitumen Emulsions, Ltd.

WELDED STEELWORK
C. & M. Engineering Co., Ltd.
Edward Farr, Ltd.

WATERPROOFING MANUFACTURERS
SIKA, LIMITED, 82, VICTORIA STREET, LONDON, S.W.1. Tel. No.: VICTORIA 3693.
DAMP-PROOFING, LTD., "Aquarep" and Fluto ("B"), U.K. Works, Deptford, London, S.E.8. Tel.: Tideway 1486-7.
"RITO" & "RITOLASTIC," ANDREW MAXWELL DIVISION (*The Liverpool Borax Co., Ltd.*) Maxwell House, St. Paul's Square, Liverpool 3.
Berry Wiggins & Co., Ltd.
British Bye-Products, Ltd.
Byrd, A. A., & Co., Ltd.
Damp-Proofing, Ltd.
Evode, Ltd.
Grangersol, Ltd.
Kerner-Greenwood & Co., Ltd.
Lillington, Geo., & Co., Ltd.
Quickset Water Sealers, Ltd.
Sal-Ferracite & Trading Co., Ltd.
Sealocrete Products, Ltd.
"Stic B" Paint Sales, Ltd.
Tretol, Ltd.
Watco (Sales), Ltd.

WINCHES
DOE, ERNEST, & SONS, LTD., Industrial Division, Ulting, Essex. Tel. No.: Hatfield Peverel 311 (12 lines). Night Tel.: Hatfield Peverel 319.
A.C.E. Machinery, Ltd.
British Hoist & Crane Co., Ltd.

WINDOWS
Tomo Trading Co.

WINDOW FRAMES & SASHES (METAL)
Braby, F., & Co., Ltd.
Crittall Manufacturing Co., Ltd.
Farmiloe, Geo., & Sons, Ltd.
Smith Bros. (Tividale), Ltd.
Haywards, Ltd.
Luxfer, Ltd.
Mellowes & Co., Ltd.
Nicholls & Clarke, Ltd.
Wiggins-Sankey, Ltd.
John Williams of Cardiff, Ltd.

WINDOW FRAMES & SASHES (WOOD)
Austins of East Ham, Ltd.
Tomo Trading Co., Ltd.

WIRE BRUSHES
GREENING, N., & Sons, Ltd., Britannic Works, Hayes, Middlesex.

WIREWORKERS & WEAVERS
GREENING, N., & Sons, Ltd., Britannic Works, Hayes, Middlesex.
POTTER, F. W., & SOAR, LTD., PHIPP STREET, LONDON, E.C.2.

WOOD PRESERVATIVES
Rentokil Woodworm & Dry Rot Centre
"Sidor" Anderson, D., & Sons, Ltd.
Szerelmey, Ltd.
Watco (Sales), Ltd.

WOOD WINDOWS (DOUBLE GLAZED)
Tomo Trading Co., Ltd.

WOODWORKING MACHINERY
Danckaerts Woodworking Machinery, Ltd.

WOOD SHUTTERS
SHUTTER CONTRACTORS, LTD., LINCOLN WORKS, GREAT CAMBRIDGE ROAD, ENFIELD. TEL. NO.: ENFIELD 8383/4/5.

BOOKS *from the Builder Book Shop*

Cost of Building Chart: This chart shows the rise in building materials and wages since 1939. **1/3** POST FREE

The Woking Experiment: The results of practical research into domestic insulation. **6d.** POST FREE

Insulation in Confusion: From THE BUILDER a pamphlet on insulation regulations. **6d.** POST FREE

Use of Ready Mixed Concrete: The writer describes the general principles of this method. **1/-** POST FREE

Organisation of Building Firms: Dealing with the organisation for medium-sized Builders. **1/-** POST FREE

★

4 Catherine St., Aldwych, WC2.
TEMPLE BAR 6251

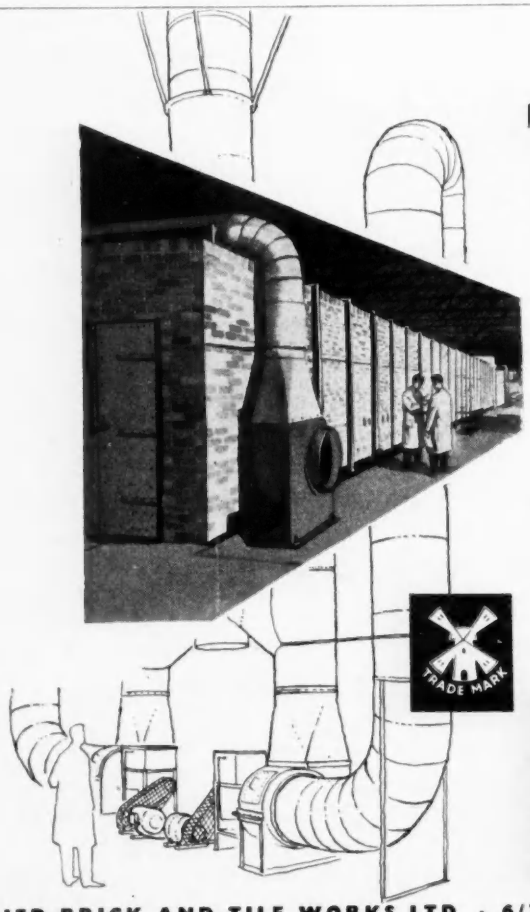
ESTABLISHED 1888

FAWCETT
FOR FLOORS

BUILDERS OF CONCRETE FRAMES and HOLLOW-TILE FLOORS

R. C. SUB-CONTRACTORS and DESIGNERS

FAWCETT CONSTRUCTION CO. LTD., 117 VICTORIA STREET, LONDON, S.W.1
Tel.: VICtoria 5845



Everything under control . . .

Nothing is left to chance in the production of Windmill Quarry Tiles. Their rich colour and uniformity of shade and size are kept constant by the most up-to-date production methods. Fired in a scientifically controlled tunnel kiln, the high standard* of Windmill Tiles can be accurately maintained at competitive prices—another good reason for specifying them wherever economy, reliable wearing qualities and hygiene govern the choice of flooring.

Standard sizes are available in Red, Brown Fleck, Red Mingle and Buff Mingle. Also Ceramic Cills in above colours. Sizes 7½″, 8″, 9″, 10″ and 12″ in only ⅞″ thickness.

SAMPLES AND A BROCHURE WILL BE SENT ON REQUEST—or ask for a Representative to call.

*B.S.1286, 1945.

TRADE MARK

WINDMILL QUARRY TILES

ALLIED BRICK AND TILE WORKS LTD · 6/7 QUEEN STREET, LONDON, E.C.4 · CITY 2725

ONLY GLOW-WORM COULD HAVE DONE IT

FOR HOT WATER AND NORMAL CENTRAL HEATING

The sensational Glow-Matic oil-fired boiler for hot water and conventional central heating. A full 35,000 B.Th.U's with reserve for cold weather conditions. Smart and clean as a refrigerator. Completely silent, it's ideal for the kitchen. Fantastic value at only

£69·10

FOR HOT WATER AND SMALL BORE CENTRAL HEATING

The Glow-Matic can also be supplied as a "packaged" unit for hot water and small bore central heating complete with circulating pump and blending valve WITHIN THE CASING. Without doubt the first and finest boiler of its type ever marketed. Retail Price

£115·0

Make no mistake — these Glow-Matic boilers are revolutionary in value, design and efficiency.

MAKE SURE to specify Glow-Matic.

MAKE SURE you have details on file.

MAKE SURE you order well in advance. Demand will be tremendous.

All Glow-Worm oil-fired boilers have been developed and tested on Esso *oil fuel which we recommend.*

THE TWO NEW LOW-PRICED OIL-FIRED

GLOW-MATIC

CENTRAL HEATING BOILERS

The Glow-Matic is the latest addition to the brilliant range of Glow-Worm oil-fired boilers.

Glow-Worm also manufacture the THERMGLOW GAS FIRED Boiler. 30,000 B.Th.U's at £42 Retail, and a full range of Solid Fuel boilers — VERY SOON the Monarch Major.

GLOW-WORM BOILERS LIMITED · 47 HATTON GARDEN · LONDON E.C.1.

* A problem above your head?

. . . then you need

"Furniss"

PATENT GLAZING

We have a fully qualified staff of technical experts ready to help you solve any roofing problems, either for new or existing buildings.
Why not let us make a survey and submit detailed drawings, entirely without obligation.
Further information forwarded on request for any of the following:—
Patent Glazing, Lantern Lights, Metal Casements, Light Constructional Steel Work, Stripping and Recovering Old Roofs, Canopies, Asbestos Sheeting, Insulation.

* *FURNISS PATENT GLAZING WILL MAKE LIGHT OF YOUR ROOFING PROBLEMS*

FURNISS & CO.
Queens Mill Road, Folly Hall, Huddersfield, Yorks. Tel: Huddersfield 4567.

F2

FINANCE
FOR
BUILDERS OF HOMES

either for SALE or TO LET

ALSO
LIBERAL MORTGAGES FOR THOSE PURCHASING A HOUSE OR MAISONETTE FOR OWNER OCCUPATION

WRITE TO
THE GENERAL MANAGER

Lion Building Society
CHISLEHURST KENT

WPS-48

INCINERATORS

to comply with the Clean Air Act are

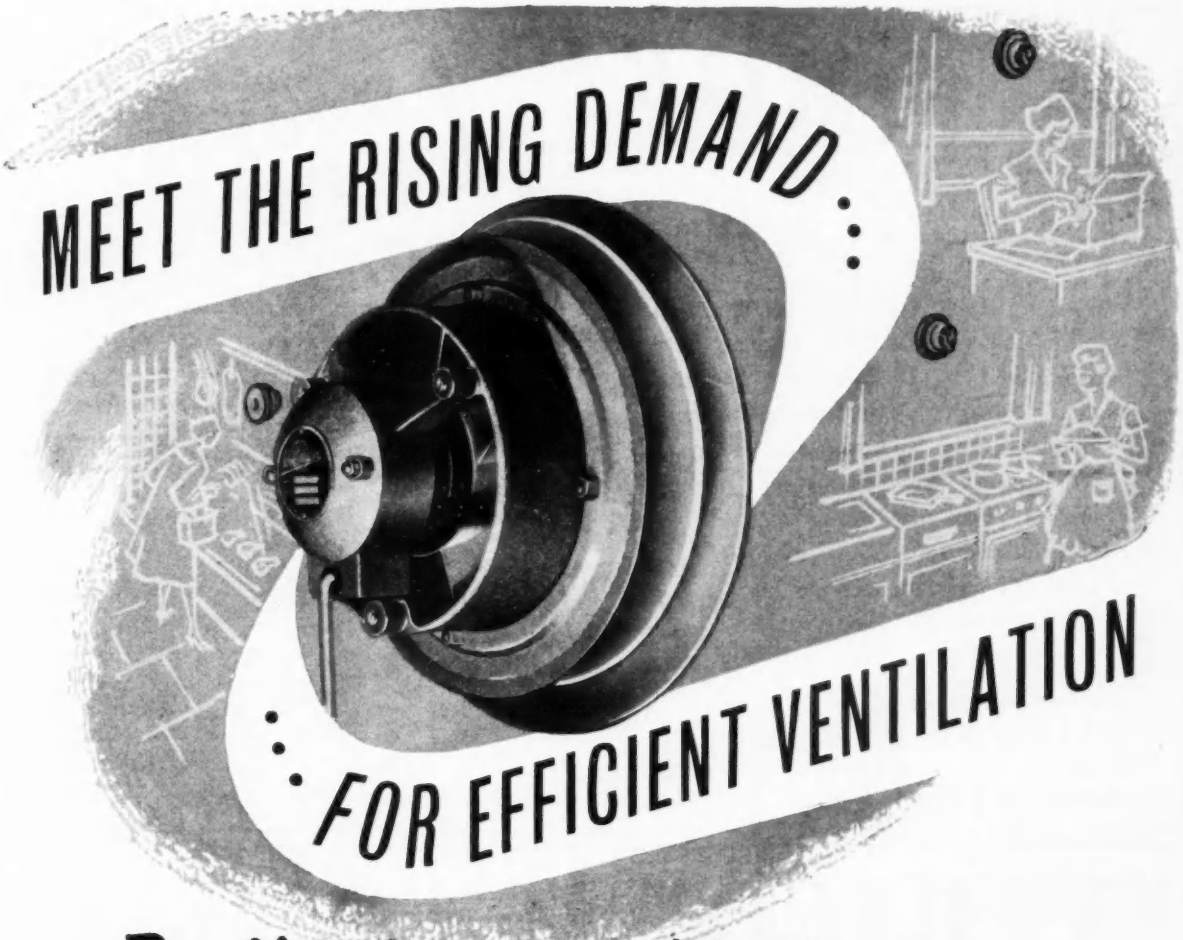
supplied by

THE INCINERATOR COMPANY LIMITED

72 VICTORIA STREET, LONDON, S.W.1

- **UNIVERSAL INCINERATORS** for light loads
- **REVERBERATORY INCINERATORS** for general wastes
- **MULTI-STAGE INCINERATORS** for industrial refuse

Please write for booklet



Profitably – with the

Comet EXTRACTOR FAN

The COMET for economy, efficiency . . .
and all these star features—

EASY, LOW-COST INSTALLATION

Requires 8" diameter aperture.

PERFECT VENTILATION

Shutterless fan allows free air outflow. No holes or gaps to provide easy break-in for intruders.

SILENT RUNNING

25 watt A.C. shaded pole motor, 200/220 or 220/250 volts, with self-lubricating bearings. 6in. fan.

PLEASING DESIGN

In choice of cream or white, harmonising with any decorative scheme. Rustproof alloy construction.

INEXPENSIVE OPERATION

40 hours for 1 unit.

GUARANTEED FOR 12 MONTHS.

Thousands more householders every week are becoming aware of the benefits of efficient ventilation. Now *you* can make the most of this demand with the COMET —a remarkably low-priced extractor fan that's absolutely reliable, sturdily built and simplicity itself to instal. The latest in the renowned Hillman range, the COMET will sell itself—on its efficiency in removing cooking smells from the kitchen . . . its virtual elimination of humidity and condensation . . . and, especially during the summer months ahead, its draught-free cooling effect in otherwise sultry atmosphere.

Phone (NORth 5891) or write TODAY for full details—specification, price and terms—to:

HILLMAN ELECTRIC MOTORS LTD
CRANE GROVE, LONDON, N.7

"ATTIMORE"

ROOFING FELT
DAMP COURSE
EXPANSION JOINTING
BITUMEN PAINTS, CEMENTS & COMPOUNDS
"GLASFLEX" GLASS BASE ROOFING FELT & DAMPCOURSE
Stable • Rotproof • Waterproof and Non-Hygroscopic

Remember "Attimore" when placing your next order or enquiry for Roofing Felt, Dampcourse, Expansion Jointing, Bitumen Paints, Cements and Compounds. Their widespread and consistent use on an ever-expanding market is convincing proof of the satisfaction given by "Attimore" Products.

Manufactured by

FELTS & DAMP COURSES LTD.

ATTIMORE HALL · WELWYN GARDEN CITY · HERTS

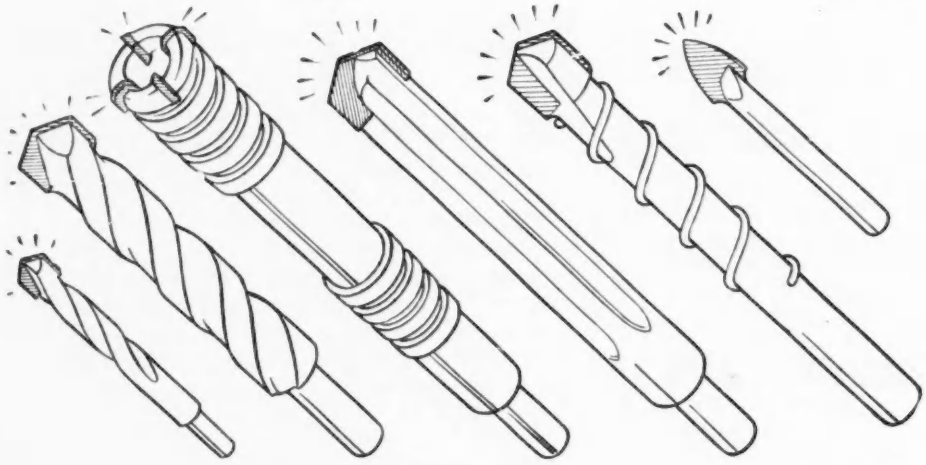
Telephones: Welwyn Garden 3176 & 285. LONDON OFFICE: TERminus 5342 (5 lines)

'ALBICO'

FOR EASIER DRILLING · BETTER RESULTS
QUICK DELIVERY · SATISFACTION ASSURED
INSIST ON 'ALBICO' MASONRY DRILLS
PROMPT REPAIR SERVICE MAINTAINED

THE FINEST DRILL FOR MASONRY, BRICK, CONCRETE, GLASS, ETC.

Any Diameter Any Length



Ask for
'ALBICO'
MASONRY DRILLS and LETTERING CHISELS BY NAME

ALBICO PRECISION ENGINEERING LTD • BARBY • Nr. RUGBY

WORKS: BRAUNSTON 226

MISCELLANEOUS ADVERTISEMENTS

Prepaid, twenty-four words, 8/6; each additional six words, 2/-. Display, 30/- (per single column inch)

FOR SALE

'BULLDOG' SHOVELS
'DREADNOUGHT' FORKS
The finest one-piece solid forged ENGLISH TOOLS made
Can be purchased from
LONDON STOCKISTS:
JOHN MACNAMARA
& Company Limited
Bush Road, Deptford, London, S.E.8
BERmondsey 3275–1435

SIEBER FOR...
A '7 STAR' LOGICAL CLOAKROOM
* SAVES SPACE
* SAVES COST
* PRESERVES GARMENTS
* ENSURES HYGIENE
* AIRS AND DRIES WET CLOTHING
* REDUCES ABSENTEEISM
* MEETS NEW FACTORY ACT

Installed in Factories, Stores, Offices, Swimming Baths, etc., throughout the country.
JAMES SIEBER Equipment Co. Ltd.
Africa House,
Kingsway, London, W.C.2. Tel: Holborn 4531/5121

TARPAULINS
OILSKINS, CAR COVERS. *All from Stock*
Price List from THE PODMORE WORKS
769 Garratt Lane, S.W.17. Tel.: WIM. 7622

LADDERS
STEPS
TRESTLES
TOWERS
TRUCKS
TROLLEYS
ETC.
MACaulay 2424 (3 lines) and 2892

Cayless OF BATTERSEA
91-93 BATTERSEA PARK ROAD, LONDON S.W.8

WANTED

WANTED—STEEL ROUNDS, SECTIONS, CORRUGATED SHEETS, STEEL & ALLOY SCAFFOLDING, FITTINGS, SCAFFOLD BOARDS. Large and small quantities permanently required.—Attractive prices, good payments, rapid decisions.—E. H. CHURCH & CO. (EDMONTON), Ltd., 68-70 Penge-road, S.E.25. Tel.: SYDenham 3131.

WROUGHT IRON GATES wanted. 2 pair.—Particulars and price to Box 3732, "The Builder."

WANTED: ALLOY and STEEL TUBULAR SCAFFOLD, large quantities only. Sites cleared anywhere. Also all types of Non-Mechanical plant.—Contact: C. EVANS & SONS Ltd., Burnside-street, Bow, E.3. Tel.: ADVance 5691/2/3.

ARE YOU SELLING WOODWORKING MACHINERY? Then contact A. COOKSLEY & CO., 21/25 Tabernacle-street, London, E.C.2. MON 3355.

WANTED—PROPS, SCAFFOLDING, TRENCH SHEETING, etc., and similar items of non-mechanical builders' Plant. Sites cleared by arrangement.—PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

FOR SALE

NISSEN TYPE HUTS for sale. Prompt despatch of 16 ft., 24 ft. and 30 ft. wide huts; also "Romney" Huts, 35 ft. wide and "Blister" Hangars 86 ft. 6 in. and 91 ft. wide. These buildings are in various lengths and comprise steel framework with galvanised corrugated steel sheeting.—Full details from Dept. 129, J. THORN & SONS, Ltd., Brampton-road, Bexleyheath, Kent (Tel.: Bexleyheath 0021).

CAST IRON GUTTERS have proved durability over 100 years. We can supply all sizes from 4 in. to 24 in. wide quickly; stocks at Hanwell, W.7 (Est. 1932).—HILL BROS., 49 Queen Victoria-street, London, E.C.4. (CITy 3094.)

CONCRETE POURING SKIPS. CIRCULAR TIPPING SKIPS, also available. 2½ cu. ft. to 2 cu. yd. For Sale and Hire.—PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

A NEW GIGANTIC HARDWOOD MOULDING CATALOGUE styled in Traditional, Continental and Contemporary designs, mass produced and precision made. Also EMBOSSED MOULDINGS, ORNAMENTS and DOWELS at today's lowest trade prices.—Write or 'phone DAREVE'S MOULDING MILLS, Ltd., Cassio Bridge Wharf, Watford, Herts. Tel.: Watford 24241/2/3.

GET ON TO Guildwood Packaged Bungalows for greater profit, less worry!—CEDAR HOMES, Ltd., Artington, Guildford.

SLATES, new and sound secondhand, large stocks available for immediate delivery. Typical prices: Secondhand, 24 in. x 12 in. at 170s. per 100; secondhand, 20 in. x 10 in. at 115s. per 100; secondhand, 18 in. x 10 in. at 90s. per 100. New slates: Prices depend on quantity and delivery areas.—THE HILL GROUP, 68-70 Penge-road, South Norwood, S.E.25. SYD 3131-4.

TRENCH SHEETS 6 ft. to 12 ft. DRIVING CAPS and STRUTS also available. For Sale and Hire.—PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

FOR SALE: TRENCH STRUTS, Acrow and Kwikform. 400 No. 1, 100 No. 2, 1,000 No. 3.—Contact: C. EVANS & SONS, Ltd., Burnside-street, Bow, E.3. Tel.: ADVance 5691/2/3.

MANUFACTURERS of CONCRETE PRODUCTS, Fencing Kerbs, Flags, etc.—C. A. E. C. HOWARD Ltd., St. John's Works, Bedford. Tel.: Bedford 4204.

C. EVANS & SONS, Ltd., for first-class Scaffold Couplers, all manufactures. Expert advice given with 100 per cent. service.—Contact: C. EVANS & SONS, Ltd., Burnside-street, Bow, E.3. Tel.: ADVance 5691/2/3.

TARPAULINS. Special offer. New 18 oz. FLAX TARPAULINS, complete with brass eyelets (not roped), 15 ft. x 12 ft. at £6 each; 18 ft. x 15 ft. at £9 each. Carriage paid Great Britain. Secondhand ex-Ministry TARPAULINS complete with eyelets and ropes, 18 ft. x 15 ft. at £6 15s. 0d. each; 18 ft. x 12 ft. at £5 each. Carriage paid London area. Carriage extra Great Britain, 6s. each.—THE HILL GROUP, 68-70 Penge-road, South Norwood, S.E.25. SYD 3131-4.

"CHATFIELD" multi-purpose Rollover CONCRETE POURING SKIP which offers the advantage of BOTTOM DISCHARGE or FRONT DISCHARGE from the one Unit at a total price only a little above the cost of existing Single Purpose Skips. For Sale and Hire.—PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

DUST SHEETS, heavy absorbent Bolton Twill with good hems, as used in our own plant hire. Size 12 ft. x 9 ft. 1-3 at 32s. 6d. each; 4-11 at 30s. 6d. each; 12 and over at 29s. 6d. each. Carriage paid Great Britain.—H. C. HILL, Ltd., 68-70 Penge-road, South Norwood, S.E.25. SYD 3131-4.

FOR SALE

Buildmaster regd.
CRANES

MODEL No. 42 TOWER CRANE
LIFTING DUTIES.

Load.	Height of lift.	Radius.
1 ton 10 cwt.	117 ft.	88 ft. 6 in.
2 tons	155 ft.	65 ft. 6 in.
3 ton 15 cwt.	178 ft.	31 ft.

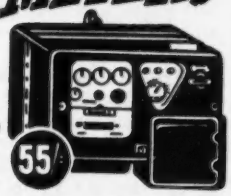
All Electric, Rail Mounted, Self-Erecting Tower and Climbing Cranes of all sizes available.

FOR SALE OR HIRE

BACKED BY REAL SERVICE BY

ABELSON
& CO. (ENGINEERS) LTD.
SHELDON · BIRMINGHAM 26
Phone: SHEldon 2424 (10 lines)
Grams: ABELSON, BIRMINGHAM

FACTORY GUARANTEED
SLOTMETERS



HOTELS
CARAVANS
BILLIARDS
TELEVISION
etc. from 55/-
also
CHECK METERS
TIME SWITCHES
etc.
TRADEX METER CO LTD
(Dept. B) 67 MAPLE ROAD, SURBITON
Tel. ELMbridge 2234/5/6

GRANITE SETTS
DELIVERED ANYWHERE
HARRIS & BAILEY LTD.
CROYDON
ADDiscombe 3181 Ref: Mr. T. A. Jones

BULK PURCHASE
FRENCH GABOON PLYWOOD

200,000 Sq. Ft. 3mm, 4mm, 6mm, 8mm, 9mm, 10mm and 12mm.
96" x 48" and 120" x 48" and Falling Sizes. Suitable Building & Furniture Fitments, etc.

LIST OF SIZES ON APPLICATION

Keen prices. Stock can be inspected at
H. A. SPIERS & Co. Ltd.,
330, Hackney Road, London, E.2.
Telephone: Shoreditch 8791 (4 lines).

ERNEST DOE & SONS LTD
Ulting, Maldon, Essex

Rotary Hoe Trencher with Ford 4D diesel engine. Good order. **£850.**
Chaseside loading shovel powered by Ford 4D diesel engine. Just overhauled. **£450.**
Dinkum Digger with Skyhi front loader, seen working. **£575.**
Trusty 1 ton diesel dumper. Working order. **£125.**
Le Tourneau 6 yd. Scraper. **£275.**
Chaseside loading shovel with P6 engine. Very good trim. **£235.**
Bray HL.20 ¾ cu. yd. Hydraulic loading shovel. Crowd action. **£650.**
May 1957 Dinkum Digger with Dozaloda. Perfect. **£1,250.**
Dinkum Digger attachment for Fordson Major, as seen. **£225.**
County Crawler with Bray Dozer. Very good order. **£850.**
Dinkum Digger with Dozaloda. Overhauled. **£1,050.**
Arps Trench Devil, self propelled Trencher. **£475.**
Ferguson Tractor with Shawnee Scout Digger and front shovel. **£650.**
Rotary Hoe Trencher. 4D diesel engine overhauled throughout. **£1,150.**
JCB Hydraulic Excavator. Giant pneumatics, front shovel. **£850.**
Bray hydraulic loading shovel ⅝ cu. yd. bucket. Seen working. **£350.**
Motor Rail Dumper spares including Dorman Diesel engine going cheap.
1959 Bray BL.430T 4 wheel drive Loading Shovel with torque convertor. **£2,450.**
Dinkum Digger. 2 buckets. Cab. Lights. Front hydraulic loader. Overhauled. **£850.**
JCB Excavator. 2 buckets. Cab. Counterweight. Rebuilt. **£895.**
Choice of 4 Dinkum Diggers. **£450 each.**
Thwaites 1½ cu. yd. Tusker Dumper. Overhauled. **£250.**
BL.430 4 wheel drive loading shovel. Immediate delivery. **£1,750.**
1957 Bray BL.25 1 cu. yd. Crawler loading shovel, rebuilt at cost of over £800, for quick sale. **£2,350.**
Several Fordson Major Diesel Tractors. Prices from **£250.**
Ford Major Diesel with Skyhi Hydraulic Loader. Overhauled. **£450.**
International T6 Crawler Tractor. Useful site Tug Tractor. **£150.**
Oliver Logging Arch on Tracks. **£235.**
Winget 5/3½ Concrete Mixer. **£45.**
Drayton 1 ton Dumper with new Petter diesel engine. **£275.**
Leeford Howlett Ditcher powered by Fordson Major Diesel. **£850.**

Ernest Doe & Sons Ltd
Ulting, Maldon, Essex
Te : Hatfield Peverel 311 (Night 319)

Secondhand
SURVEYING APPARATUS
Guaranteed Levels
from stock

Also Land Chains, Steel and Lines Tapes, Surveyors' Measuring Rods, Ranging Poles and Levelling Staves.

We purchase modern 3-screw THEODOLITES for cash.

BRUNNINGS (HOLBORN) LTD.
135 HIGH HOLBORN, LONDON, W.C.1
Phones: HOLborn 4894 & 0312. Established 1922

THE "LADDER LIFT" House Building Hoist, for Builders and Sub-contractors. Efficient and portable.—STEVENS, 76 Meadow Brook-road, Northfield, Birmingham 31.

SECONDHAND SECTIONAL TIMBER BUILDINGS, 24 ft. x 12 ft., £102; 30 ft. x 15 ft., £138; 40 ft. x 18 ft., £192; 60 ft. x 20 ft., £302; floors extra, delivery included 100 miles. Also similar new buildings.—Lists, UNIVERSAL SUPPLIES, Crabtree Manorway, Belvedere, Kent. (Erith 32948.)

SECOND-HAND TUBES AND FITTINGS.—Steel Tubes, 5 ft.-12 ft. at 1s. 2d. ft., 13 ft.-21 ft. at 1s. 3½d. ft. Double Couplers S.G.B. at 5s. each, other makes at 4s. 3d. each. Putlog Couplers at 3s. each; Joint Pins at 4s. 6d. each; Putlogs, 5 ft. at 7s. 6d. each. Scaffold Boards at 1s. 3½d. per ft. run, various parcels of cheap tubes and fittings available.—A. F. SIMPSON Ltd., 68-70 Penge-road, South Norwood, S.E.25. SYD 3131-4.

2,000 SHUTTERING PANELS 3 x 2 and smaller sizes. No. 2 and No. 4 size FLOOR CENTRES: 100 Acrow PROPS. For Sale. PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

STEEL FRAMED BUILDINGS for sale, 8 ft. to 400 ft. clear width as Workshop, Storage, Hangar, Buildings, etc.—Please write details of requirements: BELLMAN HANGARS, Ltd., Hobart House, Grosvenor-place, London, S.W.1.

STOTHERT 10/7 DIESEL CONCRETE MIXER, Benford 7/5 Petrol Ditto, both power loaded. Benford petrol-driven Barrow. Blaw-Knox 8 in. Steel Road Forms. Quantity Winget and Liner Concrete Kerb Moulds. Millars 10-cwt Builders' Platform Hoist, 56 ft. mast. Ace ditto 80 ft. mast. KIMMINS & SONS, Ltd., Lyndhurst-road, Worthing.

REFRIGERATION: All types of equipment, domestic and commercial, designed and manufactured to your specifications. Built-in work a speciality. Quotations free.—G. V. E. Ltd., 231 Strand, W.C.2.

FOR SALE: ACROW PROPS, 1,200 Type IX, 1,000 Type 2X.—Contact: C. EVANS & SONS, Ltd., Burnside-street, Bow, E.3. Tel.: ADVance 5691/2/3.

MOBILE LIVING UNITS AND OFFICES built to specification for Home and Overseas Contracts.—Write TRAILER HOMES, Ltd., Shannon Corner, Kingston By-Pass, New Malden, Surrey.

RAILWAY SLEEPERS.—Sound, Secondhand Railway Sleepers. Cart road quality, 1-50 at 11s. 9d. each, 51-100 at 11s. 3d. each, 101 and over 10s. 9d. each. Ex yard at 10s. 9d. each. Carriage paid London area.—A. F. SIMPSON, Ltd., 68-70 Penge-road, South Norwood, S.E.25. SYD 3131-4.

FOR SALE, one only, Vulcan Tower Crane, model No. 1. Radius 13 ft.—42 ft. 6 in., load capacity 35-12½ cwts. Electrically-operated, with track. Very little used. Can be seen at Bristol.—'Phone 64222, Mr. Avery Toogood, FRANK W. TOOGOOD, Ltd., Ashton Vale, Bristol, 3.

ONE 3 in. submersible-type Sewage Pump used for only two months. Output 87.5 gpm against a total head of 9.5 feet. Electric Motor 1½ h.h.p. wound for 415 volts, 3-phase, 50 cycles, one direct on starting panel. One set of no-flote electrode control. Offers wanted.—Box 3778, "The Builder."

FOR SALE. Ideal Gas Boiler No. 2 G.B.B.-5, in working order, at right price for purchaser who will dismantle.—KIGU, Ltd. LADbroke 1042.

FOR SALE: 4 ft. 6 in. KWIKFORM UNIT SCAFFOLD, H. Frames.—Contact: C. EVANS & SONS, Ltd., Burnside-street, Bow, E.3. Tel.: ADVance 5691/2/3.

PUMPS.—Sale or Hire. New or Reconditioned. Hand, Electric and Petrol-driven outfits.—THE GREENWICH PUMP & PLANT CO., Ltd., Denham-street, Greenwich, S.E.10. Greenwich 3189.

NEW AIR PUMPS. Diesel MOBILE COMPRESSORS and Armstrong Whitworth PNEUMATIC CONTRACTOR'S TOOLS, HOSES AND ACCESSORIES from stock.—HUBERT C. LEACH, Ltd., High-street, Cheshunt, Herts. Tel.: Waltham Cross 25161.

SCAFFOLD FITTINGS in makes S.G.B., Mills, Burton and Big Ben, etc., including DOUBLE COUPLERS, SWIVEL COUPLERS, JOINT PINS and PUTLOG CLIPS from 2s. 11d. each. All fully overhauled and in ready-for-work condition. STEEL and ALLOY SCAFFOLD TUBE and Blade End PUTLOGS, for Sale, available in quantities.—PLANT & BUILDING EQUIPMENT, Ltd., Chatfield Works, 1 Chatfield-road, Battersea, London, S.W.11. Tel: BATtersea 9213.

LIFT, electric service, cage 2 ft. 6 in. x 4 ft. x 3 ft. 6 in., ¾ h.p., 400 volt, 3-phase, 50 cycles. Push-button, 4 floors. Seen working now. Available in three months, complete.—THE COUNTIES PUBLIC HEALTH LABORATORIES, 66 Victoria-street. VIC 5838.

BUILDER retiring has surplus new building materials for disposal at half trade price.—List from 160 Stanmore-hill, Stanmore, Middlesex.

FINE OAK STAIRCASE for Sale, perfect order. 16 treads to landing at 8 feet, 10 treads on including 3 winders. Treads 42 inches x 11 inches. Risers 6 in. £150.—STANSELL, Mount Ebford, Topsham, near Exeter.

SYSTON
ROLLING SHUTTERS
IN STEEL, ALUMINIUM & WOOD
J. TAYLOR (SYSTON) LTD. · SYSTON · LEICESTER
Telephone: SYSTON 2133 and MANCHESTER RINgway 3996

Hubert C. Leach Ltd.
offer for sale

ROAD ROLLERS

10-ton Greens, diesel, 1948	£1,450
5/6-ton Greens, diesel, 1953	£1,350
6½-ton Greens, ex. W.D. T.V.O.	£550
6½-ton Greens, ex. W.D. diesel	£650
8-ton Marshall, diesel	£900
7-ton Fowler, T.V.O.	£250
1-ton "GF", diesel	£175

EXCAVATORS

J.C.B. Hydra-Digga, Counterweight, 1958	£1,125
J.C.B. Hydra-Digga, Loadall, 1959	£1,850
J.C.B. Loadall Shovel, 1958	£795
Chaseside L/Master Shovel, Oct., 1956	£850
Chaseside ½ cu. yd. Shovel, 1953	£250
Priestman "Cub" T. & S., 1944	£250
Smith 2/10 T. & S.	£300

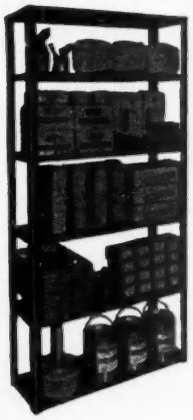
TRACTORS

B.T.D.6 Drott 4 in 1, 1959	£2,850
B.T.D.6 Bull Grader, 1955	£850
T.D.9 Bull Grader	£700
Fowler Track Marshall, 1957	£950
Fowler Challenger Angledozer, 1953	£500
Fowler V5A Angledozer, 1954	£250
Fowler Field Marshall & Winch	£180
Cletrac with Dozer T.V.O.	£95
Bristol Duplex Dozer and Loader, 1958	£850
Le Tournea 4 cu. yd. Scraper (X4F)	£250
D.4 P.C.U. for ditto	£48

AIR PUMPS LIMITED COMPRESSORS

Portable Model ARMD 625, 2-stage Rotary Compressor, 625 C.F.M., 100 lbs. p.s.i. New March, 1959	£2,950
Model APD 170, 3-tool Portable, 170 C.F.M. at 100 lbs. p.s.i. New Sept., 1957	£650
Model APD 135, 2-tool Portable, 135 C.F.M. at 100 lbs. p.s.i. New Oct., 1956	£500
Model D150, Portable, 2-tool, 150 C.F.M. at 100 lbs. p.s.i.	£185

Hubert C. Leach Ltd.
HIGH STREET, CHESHUNT, HERTS.
Telephone: Waltham Cross 25161



MANUFACTURER'S OFFER OF
STEEL SHELVING
Deliveries free to England, Scotland and Wales
£3 15s.
Ready for Erection

72" *High*
34" *Wide*
12" *Deep*

- *Brand new — Manufactured in our own works*
- *Shelves adjustable every inch*
- *Heavy gauge shelves will carry 400 lbs. each*
- *Bronze enamelled dark green*
- *6 shelves per bay — Extra shelves 8/- each*

Quantity discounts
Also available in White at £5 per bay

N. C. BROWN LTD.
"B" WING, HEYWOOD, LANCS. Tel.: 69081 (6 lines)

Ernest Doe & Sons Ltd
JCB
DISTRIBUTORS

offer for immediate delivery ex stock Croydon.
New JCB Hydra-Digga/Loadall—£2,368
Full range of buckets and extra equipment at listed prices.
All JCB Spares ex stock Croydon.
Also the following second-hand machines.

JCB Hydraulic Excavator powered by Ford 4D diesel engine with cab, good tyres and 18" and 24" back acter buckets and front mounted hydraulic shovel with ⅜ cu. yd. bucket and dozer blade. Overhauled and resprayed. **£765.**

Dinkum Digger on Fordson Major Diesel Tractor with cab, good tyres, and 18" and 24" buckets and Skyhi front mounted ⅜ cu. yd. loading shovel. Overhauled and resprayed. **£850.**

Muirhill 14B 4½ cu. yd. Dumper powered by Perkins P6 diesel engine. Very good pneumatics. Overhauled and resprayed. **£575.**

Bray HL20 hydraulic loading shovel with ⅜ cu. yd. crowd action bucket, powered by Ford 4D diesel engine, fitted new remould 1200 x 24 rear pneumatics, good 750 x 20 fronts. Overhauled throughout. **£750.**

Bray hydraulic loading shovel powered by Perkins P6 diesel engine with ⅜ cu. yd. bucket. Good tyres. All in good working order. **£350.**

New Type Fordson Major diesel Tractor with electric starter, hydraulic lift and linkage new remould 11 x 36 rear pneumatics, good 600 x 9 fronts. Overhauled and resprayed. **£350.**

County Bulldozer, powered by Ford 4D diesel engine and fitted Bray hydraulic angledozer. This is a very good clean machine and is a bargain at **£850.**

Fiat 55L Bulldozer. Wide gauge wide tracks, fitted Mackay hydraulic angledozer. Overhauled throughout. Immediate delivery. **£1,250.**

Howard Rotary Hoe trencher, powered by Ford 4D diesel engine and fitted Rotoped tracks. Cuts drainage trenches 8" wide 42" deep, complete with pipe layer. These machines are in short supply. **£1,050.**

Get your Spares and Service from:

Ernest Doe & Sons Ltd
Therapia Lane, Mitcham Road, Croydon, London
Phone Thornton Heath 4844, Day and Night

NEW TARPAULINS
EXACT SIZE ONLY

JUTE, 16 oz. before green wax proofing. 12' x 9' each 66/-, 15' x 12' each 100/-, 18' x 12' each 115/6, 21' x 15' each 156/6.

FLAX, 16 oz. before green chemical proofing. 12' x 9' each 87/6, 15' x 12' each 139/-, 18' x 12' each 156/6, 21' x 15' each 215/-.

COTTON DUCK, 14 oz. before green wax proofing. 12' x 9' each 90/6, 15' x 12' each 148/6, 18' x 12' each 174/-, 21' x 15' each 252/6.

ANY QUANTITY FROM LONDON STOCK

JOHN MACNAMARA & CO. LTD.
Bush Road, Deptford, London, S.E.8
BER 3275-1435

PODMORE WORKS

SITE
HUTS
OFFICES
STORES

ALL SIZES - PROMPT DESPATCH
PODMORE WORKS LIMITED
769-773, GARRATT LANE, LONDON S.W.17
PHONES: WIMBLEDON 7622

YOU CAN
DRAIN YOUR SUMP WITH A
"Muckypump"
—a Petrol-Driven DIAPHRAGM PUMP FOR UNDER £85
GREENWICH PUMP & PLANT CO. LTD.
DENMAN STREET, S.E.10
Phone: GREENWICH 3189

DUMPERS
for
SALE or HIRE
THWAITES ¾yd.—1yd.—1½yds.

DANDRIDGE'S of GREENWICH
The Greenwich Plant Depot
WOOLWICH ROAD, S.E.10
Tel. No.: Greenwich 3188-9

ELIMINATE RUST and MILL SCALE

SHOT BLASTING
& METAL SPRAYING CO. LTD.
SILWOOD ST. BERMONDSEY, LONDON, S.E.16.
Tel: BERMONDSEY, 1131

All types of Asbestos Machined to Architects' and Builders' Specification

Stockists of:
Flat Asbestos, Fully Compressed Asbestos, Fluted Asbestos, Reeded Asbestos, Asbestos Wood, Asbestos Insulation Board, Partition Board, ⅛" Flexible.

For:
Balcony Panels, Flower Boxes, Curtain Walling, Soffits, Shelving, etc.

PROMPT SERVICE

DALTON, BALLARD
& COMPANY LIMITED
Fleet Place, Upper Park Rd., N.W.3
Telephone: PRIMROSE 5854

FOR HIRE

FOR HIRE
DINKUM MAJORS
EVANS PLANT LTD.,
361 Higham Hill Road, Walthamstow, E.17.
Tel: LARks 4484

FOR HIRE

PAH

★ **DROTT 4-in-1 Shovels**
★ **DINKUM DIGGERS**
★ **EXCAVATORS**
★ **COMPRESSORS**
★ **VIBRATING ROLLERS**
★ **PUMPS**

ROB ROY SALES & SERVICE AGENTS
ACWORTH PLANT HIRE LTD.,
207 High Street, Waltham Cross, Herts.
Tel.: Waltham Cross 26211

HIRE
LADDERS

UP TO 80 FT. EXTENDED
TOWER LADDERS
UP TO 35 FT. WORKING HEIGHT
POLE LADDERS
UP TO 80 RUNGS
TRESTLES & STEPS
FROM
JOHN MACNAMARA & CO. LIMITED
BUSH ROAD, LONDON, S.E.8
BERMONDSEY 3275 & 1435

FOR HIRE

★ **POLE LADDERS**
★ **TOWER LADDERS**
★ **EXTENSION LADDERS**
★ **STEPS, TRESTLES**
★ **BOARDS**
★ **CONCRETE MIXERS**

and

SCAFFOLDING
of all types
★
Immediate Deliveries
★

STEPHENS & CARTER Ltd.
731-761 Harrow Rd. N.W.10.
Tel: LADbroke 1191 (7 lines)

HIGH WYCOMBE	Tel: 3183
BIRMINGHAM	Tel: Victoria 1226
NORWICH	Tel: 47785
IPSWICH	Tel: 53236
COATBRIDGE, Scotland.	Tel: Coatbridge 525

"In the right place—at the right time."
For hire with guaranteed service:
Bulldozers, Scrapers, Excavators,
Air Compressors, Pumps, Hoists, etc.

PLANTIRE LIMITED,
79, ECCLESTON SQ., S.W.1
Tel.: VIC. 9161

3/2 MIXERS 'HALF BAG' BENFORD
FOR HIRE
30/- PER WEEK
PETROL OR ELECTRIC—1 PHASE
JOHN MACNAMARA & CO. LTD.
Bush Rd., Deptford, London S.E.8. BER 3275-1435

THE UNIQUE PLANT SERVICE

We still claim to have the most comprehensive PLANT HIRE SERVICE in this country.
We can normally supply every item of Mechanical and Non-Mechanical Plant the Builder requires between foundations and roof.

☆ ☆ ☆

OUR LORRIES DELIVER DAILY IN LONDON & ADJOINING COUNTIES

☆ ☆ ☆

SYMES (PLANT) LTD
ALBERT WORKS
BRENTWOOD · ESSEX
Telephone No.:
BRENTWOOD 2116 (5 lines)

FOR HIRE

PLANT FOR HIRE.—Excavators, Rollers, Mixers, Compressors, Pumps, Hoists, Bulldozers, etc.—SLOUGH PLANT HIRE CO., Alexandra-road, Slough 21279.

SLOGGETTS PLANT HIRE

Large quantities of DUMPERS and COMPRESSORS now available for HIRE. Contact us for HIRE of all types of CONTRACTOR'S PLANT.—2 Burtons-road, Hampton Hill, Middlesex. Teddington Lock 1138/9.

SPRAY PLANT HIRE. A full range of Portable Electric or Petrol engine driven, one or two operator Spray Paint Outfits are available for Hire from the actual manufacturers.—VOLSPRAY, Ltd., Grosvenor Gardens House, London, S.W.1. (Phone VICtoria 2974-5), or at Alfred-road, Gravesend, Kent 'Phone: Gravesend 4277.

FOR COMPRESSOR HIRE SERVICE.—Modern DIESEL MACHINES, lorry-mounted, also portable.—Telephone LEACH, Waltham Cross 25161.

FOR HIRE: TUBULAR SCAFFOLDING, Scaffold Boards, Extension Ladders, Trestles, Steel Props, Tarpaulins and Dust-sheets, etc. Pumps, KANGO Hammers and Breakers.—HAINES PLANT, 72 Loudoun-road, London, N.W.8. PRImrose 3324.

SCAFFOLDING. Large stocks available for Hire.—SECURITY SCAFFOLDS Ltd., 92-96 Spring Hill, Birmingham, 18. Telephone No.: NORthern 4413.

FOR HIRE: TUBULAR SCAFFOLDING, CONCRETE MIXERS, SCAFFOLD BOARDS, EXTENSION LADDERS, SPLITHEADS, etc. Prompt delivery.—E. K. WILSON & SONS Ltd., 87 Old Brompton-road, S.W.7. Primrose 3326.

PARDIX PLANT

FOR HIRE

DROTT SHOVELS, BULLDOZERS, DINKUMS, and all Contractors' plant for hire. Clearance and site preparation undertaken. Telephone: Waltham Cross 23496 and 24913.—PARDIX PLANT ENGINEERS, Ltd., 62-72 High-street, Cheshunt, Herts.

FOR HIRE: KANGO HAMMERS, KANGO BREAKERS and FLOOR SANDERS, etc.—E. K. WILSON & SONS, Ltd., 87 Old Brompton-road, S.W.7. PRImrose 3326.

LATTICE STEEL ERECTION MASTS (light and heavy), 30 ft. to 150 ft. high, for immediate hire.—BELLMAN'S, 21 Hobart House, Grosvenor-place, S.W.1.

THREE KW. 110V. D.C. PETROL GENERATORS for hire. Ideal for site electric lighting and power tools.—PARK-STANTON & CO., 72 Leadenhall-street, E.C.3. AVE 1416.

CONCRETE - BURSTERS

CONTRACTORS SERVICES LTD.
65, EFFRA ROAD LONDON SW2
TELEPHONE: BRIXTON 4081

CS. 25

N D & H
TUBULAR SCAFFOLDING AND CRADLES CONTRACT
HIRE or SALE
Speedy Service. Competitive Prices
NICOLL, DAWSON & HUMPHRIES, LTD.
1, Southern Grove, Mile End, E.3
Tel.: ADVance 1927-4511

FOR HIRE
EXCAVATORS
TRACTORS
TRAXCAVATORS
LOADING SHOVELS
COMPRESSORS
LIGHT DUMPERS
CONCRETE MIXERS, ETC.

H. COX & SONS
(PLANT HIRE) LTD.
33 SOUTHAMPTON WAY
CAMBERWELL S.E.5
RODNEY 2215 (4 LINES)

CASWELL Tel.: RIVerside 8922/5
CRANES
& ERECTION LTD.
GROVE WORKS, HAMMERSMITH, W.6
MANUFACTURE for SALE or HIRE
GUY DERRICKS
From 3 to 100 tons
LIFTING DERRICKS
From 1 to 100 tons—200 ft. High
WINCHES HAND or POWER OPERATED
10 tons capacity direct
BOGIES
Also **HIRE** *to any gauge for any load* SCOTCH DERRICKS
Birmingham Office: 156, Charles Henry Street, Birmingham 12.
Tel.: Birmingham MIDland 7063/4
up to 15 Tons—135 ft. Jibs.
Exclusive HIRE AGENTS for ANDERSON GRICE CRANES

MOORE'S $6\frac{3}{4}$ cwt. to 30 cwt.
VIBRATING ROLLER HIRE
Tel: TOTtenham 0401 (10 lines)

PRIMROSE 7672/3/4

Garmack & Co. Ltd.
BERKLEY HOUSE,
BERKLEY GROVE,
LONDON, N.W.1.

SPECIALISTS IN HARDWOOD & SOFTWOOD
Joinery Shopfitting
BOARD ROOMS
OFFICE FITTINGS
CONTRACTS CARRIED OUT IMMEDIATELY

"YOU CAN ALWAYS HIRE A GREENWICH PUMP"
GREENWICH PUMP & PLANT CO., LTD
DENHAM STREET S.E.10
Phone: GREENWICH 3189

CONTRACTS WANTED

MULTISPRAY LIMITED AND ASSOCIATES

Offer the following services to Builders:

EXPOSED AGGREGATE finishes set in concrete or Bitumen
MOSAIC FACINGS
NATURAL STONE FACINGS (Glamorock)
TYROLEAN SPRAYING
PAINT SPRAYING
BITUMEN SPRAYING
FELT ROOFING
BITUMEN
EMULSION WATERPROOFING
HESSIAN WORK
PAVIOR
BRICKWORK
POINTING
CONCRETING
GRANOLITHIC FLOORING
RENDERING
PREFABRICATED ERECTIONS

MULTISPRAY LIMITED
3 RUSH GREEN ROAD,
RONEO CORNER, ROMFORD,
ESSEX
Telephone: Hornchurch 43491/2/3

JAMES JOINERY
All classes of work executed, Individual or Repetition items. DOORS, SASHES, STAIRCASES, SHOP FITTINGS, AND SHOP FRONTS, ETC.
Sawing, Planing and Mouldings
ROMSEY WORKS
2, COMMERCIAL WAY, S.E.15
RODney 5151

CONTRACTS WANTED

Prepaid rate, 24 words, 8s. 6d.: each additional 6 words, 2s. Display 30s. per inch s. col.

CRADLES erected on time at the right price.—Ring THE PETER COX CRADLING COMPANY. GRO 2023.

STONE Restoration and Cleaning. London or provinces. Competitive prices.—PETER COX & PARTNERS, 33 North-row, W.1. Mayfair 1306.

BRICKWORK. New, Repairs, Pointing. Greater London area.—FRENCH & BEEKE, 29 Dalberg-road, S.W.2. Brixton 5870.

J. A. BURWASH & SON, 89 Blackbush-avenue, Chadwell Heath, Romford, Essex. Sanitary and General Plumbing, Small Bore Heating and General Pipe Fitting. Architects' enquiries invited.—Tel.: Seven Kings 6251, evening calls accepted.

MOBILE LABOUR FORCES. Home Counties. Site clearing, Demolition, Excavation, Concretor, Drain Laying, Pre-Cast Erections, etc.—T. F. MARTIN, 68 Vaughan-road, Harrow 6044.

C. IZATT & SON Ltd., PAINTING AND INTERIOR DECORATING CONTRACTS Required. Competitive prices. Members of the National Federation.—36 Orchard-road, Dagenham, Essex. DOM 4660 and MITcham 4127.

BRICKWORK SUB-CONTRACTS wanted in and around London. First-class work guaranteed at reasonable prices.—A. P. ADKIN, Ltd., 73 Crouch Hall-road, Hornsey, N.8. Mountview 2491.

JURA ASPHALTE invites inquiries for asphalt FLAT ROOFS, GUTTERS, and COLOURED FLOORS. Prompt work and keen quotations.—407 Wandsworth-road, S.W.8. MAC 3600.

SOILING, SEEDING and TURFING. Work undertaken in any part of U.K. at competitive prices.—GILLAM, Purley. UPLands 9222/6.

G. BARTER & CO., Industrial Decorative Spray and brush painters (labour only or contract). We supply equipment.—1a Whitton-way, Hounslow, Middlesex. HOUnslow 9615. SOUthall 3815.

FORM WORK, 1st and 2nd Fixings, in and around London. First-class work. Strength 30 carpenters. Fully mobile.—HAINES & SON, Ltd., 86 Atlantic-road, Brixton, S.W.9. Tel.: BRI 7260 and 2977.

ALL types of Labour Only or Labour and Material PLASTERING WORKS carried out.—'Phone: A. FRENCH Ltd. VAL 8625 or COP 1251.

UNDERPINNING or any building work of a difficult nature.—C. GRAHAM SMITH (BUILDERS) Ltd., 26 Flint-street, S.E.17. RODney 7626.

PLUMBING: Sub-Contract or Contracts, South, South-West England. Maintenance schedules undertaken.—SOUTHERN PLUMBING SERVICES Ltd., 3 Barra Hall-road, Hayes, Middx. HAYes 5603.

DECORATING CONTRACTORS. First-class tradesmen always available.—J. HASSETT & Son, 11 Nigel-road, S.E.15. New Cross 8359.

SPRAY Painting Specialists, Decorative or Industrial. Willing to travel. Inquiries invited.—KELLS, 70 Greenwich South-street, S.E.10. TIDeway 5884 (after 7 p.m.).

ERECTION and DISMANTLING. Structural steel work and all types of prefabricated components. Speedy and efficient service.—ERECTORS, 80 Bulwell-crescent, Cheshunt, Herts. Waltham Cross 22564.

GOOD CLASS CARPENTRY, Joinery, fixing contracts Required. Conversions, Alterations, new work. —For prompt quotations, ring WYFORDS, LAD 1594 or write, 64 St. Marks-road, W.10.

PLASTERING wanted. Labour only. Large or small jobs.—G. WILLIAMS, 4 Manship-road, Mitcham, Surrey. Tel.: Mitcham 1072.

POINTING wanted, heather flush or tuck, old or new. Town or country. Distance no object.—J. GREEN, 7 Brockley House, Alvey-street, S.E.17. ROD 7707.

BRICKWORK wanted, alterations, repairs, etc., personal supervision.—Tel.: TULse 6745 day, 0075 evening.

SITEWORKS, Footings, Drainage, Roads, Watermains, etc., Required. Qualified engineer, competent labour force, own equipment. Fully mobile. —HARRISON, Wethersfield Manor, Braintree, Essex. Tel. Shalford Green 464.

BRICKWORK SUB CONTRACTS Wanted. Up to any amount. First-class labour force. —J. W. ANDERSON, 46 Chippingfield, Harlow, Essex.

BRICKWORK, Pointing, Repairs and Alterations Contracts Required in London and Hertford areas. —I. M. ALLAN, 1 Briarley-close, Broxbourne, Herts. Hoddesdon 2903.

HOOK'S JOINERY
WORKS LTD.
BECKENHAM 2246

R. W. LOCKWOOD
"Syndal," Pipps Hill Rd., Grays Hill, Billericay, Essex.
Telephone: BASILDON 217
Plastering & Granolithic Contractors
345 GREEN LANE, SEVEN KINGS, ILFORD
Telephone: SEVEN KINGS 7551

CENTRAL FLOORING CO.
Wood Block Flooring Contractors
PARQUETRY and HARDWOOD STRIP FLOORS
Old Floors Repaired, Resurfaced and Polished as New
All enquiries promptly attended to
418/420 EUSTON ROAD, N.W.1 Tel: EUSton 2614
WORKS:— 14 HAMILTON LANE, HIGHBURY, N.5
Tel: CANonbury 7313

WALL & FLOOR TILING
TILED FIREPLACES
WALTER TAYLOR
(BELMONT) LIMITED
General Builders' Merchants
Office: 112, WINDERMERE ROAD COULSDON, SURREY Tel.: UPLANDS 4421
Works & Depot: STATION ROAD BELMONT, SURREY Tel.: VIGILANT 8037/8
Phone for our representative to call

FLOORS
PARQUET · STRIP
WOOD BLOCK
IN THE BEST HARDWOODS
laid and polished. Also existing Wood floors re-surfaced and polished by machines. Send for details:
Wachal
FLOORING CO.
52 ROCHESTER ROW, S.W.1
Phone: VICtoria 0687

MOORE'S COMPRESSOR HIRE
Broome & Wade 2.3.& 4. tool portable: Air Pumps 2 tool mobile.
Tel: TOTtenham 0401 (10 lines)

R. C. (STEEL) LTD.

FABRICATORS AND STOCKHOLDERS OF REINFORCING BARS
WEYBRIDGE 5732

STATION YARD
ADDLESTONE
WEYBRIDGE
SURREY

KITTRIDGE FLOORING LTD.

HARDWOOD
DECORATIVE
INDUSTRIAL
FLOORING SPECIALISTS

CROWN WORKS · CROWN STREET
BRENTWOOD
ESSEX

Telephone: BRENTWOOD 1931 and 424

MASTIC SEALING AND POINTING
Whenever you require Mastic Sealing, pointing or weather proofing treatments get in touch with Expandite Limited, who can arrange for contract work to be carried out throughout the country.
EXPANDITE LIMITED
CHASE ROAD, LONDON, N.W.10 Telephone ELGar 4321 (10 lines)

JOINERY BY H. ZIMAN LTD
BIS. 5696/7

WANTED—PAINTING and DECORATING
By Contract or Measurement Est. 1925
All work Guaranteed to your entire satisfaction
G. & H. HOUSDEN, 21, Stafford Road, Wallington. Phones: Wallington 9848 Pollards 1975

FINANCIAL

In their own interests all readers are asked to check carefully on all advertisements dealing with finance.

MORTGAGES 1st and 2nd's, also Re-mortgages on all classes of properties.—Particulars, B. N. Famerica, 31 Avenue Mansions, London, N.W.3.

PATENTS & TRADEMARKS

"SWAN FLOORING" is the Registered Trade-mark of Fine Hardwood and Softwood Flooring.—Manufactured in this country by J. H. & F. W. GREEN, Ltd., Charlton Sawmills, Singleton, Chichester, who will gladly send stock lists and price lists on request.

THE PROPRIETORS OF PATENT NO. 653953 for "Improvements in or relating to Scaffolding" desire to secure commercial exploitation by Licence or otherwise in the United Kingdom.—Replies to HASELTINE LAKE & CO., 28 Southampton Buildings, Chancery-lane, London, W.C.2.

CONTRACTORS WANTED

TENDERS invited for Sub-Contracts. Brick-laying. Labour only.—Ring: Mr. CLARK, PAD 1481.

JOINERY WORKS capable of producing small runs to guaranteed delivery date are invited to communicate with RINGHAM, WIM 4303.

SUB/CONTRACT CARPENTERS wanted for block of eight flats, Forest Gate, London, E.7.—Apply, in writing, to CIRCLE CONSTRUCTION CO. Ltd., Circle House, 65/71 Wembley Hill-road, Wembley, Middlesex.

BUILDING SUB-CONTRACTORS CONTACTS

Builders who have not as yet had the worry of Sub-Contract labour lifted from their burdened shoulders should contact us now. We have a nation wide coverage of Sub-Contractors in all trades who are seeking work at this moment.

57, Cranford Avenue,
Palmers Green, N.13.
Telephone: POTTERS BAR 4623.
NO PERSONAL CALLERS

PUBLIC NOTICES

HAMMERSMITH TOWN HALL.—Assembly Hall Suite and/or Small Hall available for Dances, Dinners, Dinner/Dances, Concerts, Conferences, Meetings, etc. Catering by the Council's Catering Service.—Inquiries: RIVerside 3020 (Ext. 41).

EDUCATIONAL

Institute of Quantity Surveyors
DIPLOMA OF PROFICIENCY IN WORKING-UP, 1960

Notice is hereby given that the above examination which has been held annually since 1958, will be held in London on the 18th to the 20th October, 1960 (inclusive). Applications to sit for the examination, which must be made on the prescribed form, to be obtained from the Secretary, must be received at the office of the Institute, 98 Gloucester-place, London, W.1, not later than 30th August, 1960.

The Rules and Syllabus may be obtained without charge from the Institute.

Candidates for the Diploma must be at least 21 years of age, and have had at least four years' practical experience in Working-up.

BUILDING TRADE COURSES
Postal courses in Building Construction, Science, Quantities, Estimating, Steelwork, Concrete, Surveying, Bookkeeping, etc., and for L.I.O.B., M.I.C.W., M.R.S.H., A.I.B.E., A. Blg. S.I., Building Inspector, City & Guilds, G.C.E. etc. Revision Courses also available. Send for booklet "Building Opportunities"
THE ELLIS SCHOOL,
2, ALBANY HOUSE, WORCESTER.
London Office:
103a, Old Brompton Road, London, S.W.7

R.I.B.A. & T.P.I. EXAMS
STUART STANLEY (Ex. Tutor School of Arch., Lon Univ.) & G. A. CROCKETT, M.A./B.A., F/A.R.I.B.A., M./A.M.T.P.I. prepare students by correspondence tuition. 10 Adelaide St., Strand, W.C.2. TEM. 1603/4

I.Q.S. R.I.C.S. R.I.B.A. I.A.A.S.
Postal courses conducted in preparation for full syllabus or single subjects. Special arrangements made for students wishing to revise or supplement studies. Write to Principal, A. B. Waters, F.R.I.B.A., F.I.Arb.
THE ELLIS SCHOOL
103a, Old Brompton Road, London, S.W.7
Ask for DAS booklet. and at Worcester

144-PAGE HANDBOOK
FREE!
TO AMBITIOUS BUILDING MEN

Every ambitious building man should read **"ENGINEERING OPPORTUNITIES."** This informative guide gives details of **A.M.I.C.E., A.R.I.B.A., F.R.I.C.S., L.I.O.B., M.R.S.H., A.I.Q.S.,** etc., and outlines the widest range of Home Study Courses in all branches of **Architecture, Building, Surveying, Heating and ventilating, Costing, Valuations, Timber Technology, etc.** Full details of our **"NO PASS—NO FEE"** terms are given in our handbook. Tell us what interests you and this useful book, which explains the easy way to increase your technical knowledge and personal prestige, will be sent FREE and without any obligation.

POST COUPON
(write if you prefer not to cut this page)
Please send me 144-page Handbook—FREE.
NAME
ADDRESS
SUBJECT OF INTEREST
BRITISH INSTITUTE OF ENGINEERING TECHNOLOGY
824, College House,
29-31, Wright's Lane,
Kensington, W.8
BIET

GOING UP! get there faster with . . . **ICS**

Turn your ambitions into reality—a better-paid job—with I.C.S. HOME STUDY. Quickly, easily, it gives you the knowledge you need—the specialised training that brings promotion and success. Fees are moderate and there are no books to buy.

Guaranteed coaching for professional Examinations:
Inst. of Builders; Inst. Clerk of Works; R. Inst. Ch. Surveyors; I.Mun.E. Bld. Insprs. Cert.; I.Q.S. Inter, Final and Diploma in Working Up; Inst. Struct. Eng.; Inst. of Eng. Designer

First-class instruction coaching in:
Bldg. Contracting and Specifications, Architecture, Mun. Eng., Qty. Surveying, Civil Eng., Draughtsmanship, Struct. Eng., Sanitary Eng. and Courses in Management, Commerce, Mechanical, Radio and Electronic Engineering.

Post this coupon today

(Dept. 21J), Intertext House,
Parkgate Road, London, S.W.11
Subject .....
Name ..... Age .....
Address .....
.....
Occupation 6.60

INTERNATIONAL CORRESPONDENCE SCHOOLS

PARTNERSHIPS, PRACTICES, ETC.

QUANTITY Surveyor with practice in North West offers PARTNERSHIP to young qualified Quantity Surveyors.—Apply giving full details of experience, etc., to Box 3524, "The Builder."

F.I.A.S. seeks PARTNERSHIP with established Quantity Surveyors, London area. Experienced, own practice and connections, fourteen years.—Box 910, "The Builder."

ARCHITECT (fully qualified and British-trained), with twenty years' experience in the U.S.A., seeks associate with established practice, view partnership. Capital available.—Box 3766, "The Builder."

APPOINTMENTS OPEN

Prepaid, twenty-four words, 8/6; each additional six words, 2/-. Box number, including forwarding replies, 2/-.

L.I.O.B., A.R.I.C.S., R.I.B.A., A.M.I.C.E., etc., on "NO PASS—NO FEE" terms. Over 95 per cent. successes. For details of Exams and Courses in all branches of Building, Surveying, Civil Eng., Timber Technology, Forestry, etc., write for 148-page handbook.—FREE.—B.I.E.T. (Dept. 710), 29 Wright's-lane, London, W.8.

ARCHITECTS

ARCHITECTS of Final Standard Required. 5-day week. L.V.s, holiday arrangements honoured.—RAGLAN SQUIRE & PARTNERS, 3 Hobart-place, S.W.1.

£1,000/£2,000 P.A. will be paid to experienced competent ARCHITECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required.—Please apply in writing to Box 990, "The Builder."

DEVEREUX AND DAVIES Require capable and enthusiastic ASSISTANT ARCHITECTS, salary £1,000 per annum or according to experience and ability.—Apply 3 Gower-street, Bedford-square, London, W.C.1.

BASIL SPENCE AND PARTNERS Require qualified and experienced ARCHITECTS to fill positions of responsibility on a major building programme.—Write to 48 Queen Anne-street, W.1, stating experience and salary required.

EXPERIENCED SENIOR ASSISTANT ARCHITECT Required in Architect's Department of commercial firm in the West Riding of Yorkshire. Must be prepared to work on projects of varying size; also willing to travel throughout the country. 5-day week. Pension Scheme, canteen facilities. Salary by arrangement according to age and experience.—Apply, Box 946, "The Builder."

APPLICATIONS are invited to fill posts as ASSISTANT ARCHITECTS. Five-day week. Compulsory Superannuation Scheme. Salary range £730-£1080 per annum, according to age and experience.—Apply, R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S., Ltd., 99 Leman-street, London, E.1.

PROGRESSIVE County Town Architects urgently Require services of two ASSISTANT ARCHITECTS possessing good design and structural ability for educational and housing projects. Appropriate salaries offered.—A. R. DANNATT & SON, F./F.R.I.B.A., Chartered Architects, Surveyors, Prudential Buildings, 65a Duke-street, Chelmsford, Essex. Tel: Chelmsford 3857.

FARMER AND DARK

have vacancies for:—

ASSISTANT ARCHITECTS

Minimum 5 years' Office experience.

JUNIOR ASSISTANTS

Wide variety of interesting projects both here and abroad; including Schools, Offices, Laboratories, Factories, Power Stations and Military Establishments.
Scope for people with initiative and ability.
Five-day week.
Holiday arrangements honoured and travelling expenses paid to those interviewed.

Please write or telephone:—
Romney House, Tufton Street, S.W.1.
ABBEY 6311.

THE LONDON ASSOCIATION OF BUILDERS' FOREMEN AND CLERKS OF WORKS

Memorial Hall, Farringdon Street, London, E.C.2

★ **Provides against Unemployment and Death**
★ **Pensions for Aged Members or Widows**
★ **Applications for Membership invited**

Experienced Foremen and Clerks of Works can be obtained by applying to the Secretary

Mr. J. S. Rigden
50 WARREN ROAD
BANSTEAD, SURREY

ARCHITECTS ASSISTANTS

APPLICATIONS are invited for the post of ARCHITECTURAL ASSISTANT, male or female, for duty at the Royal Infirmary of Edinburgh. Starting salary not exceeding £715 per annum, according to age and experience and rising to £900 per annum.—Applications, giving the names of two referees, to the Secretary and Treasurer, ROYAL INFIRMARY.

ARCHITECTURAL ASSISTANT, about Intermediate standard, Required for general practice in North Devon office. Pension scheme.—Box 939, "The Builder."

ASSISTANT Required for Architects' Office (Architectural qualifications not essential). Country town approximately one hour London, although not suitable for daily travel. Able to deal with Specifications, Site Supervision, Issuing Certificates, Surveying, Detail Drawing. Must be able to drive.—Box 3734, "The Builder."

SENIOR and Junior ARCHITECTURAL and ENGINEERING ASSISTANTS Required. Good working conditions, pension scheme and expanding opportunities.—Apply giving general details with salary required in strict confidence to GREGORY HOUSING Ltd., 21 Farncombe-road, Worthing, Sussex.

INTERESTING and varied small practice urgently Requires Senior and Junior ASSISTANTS for high-quality work, not industrial.—Telephone, or write, BIRD & TYLER, 13 Welbeck-street, London, W.1. WEL 0882.

QUALIFIED CHIEF ASSISTANT and **JUNIOR** Required in one of the most delightful towns in the Country. Applicants should be genuinely interested in a varied Private Practice, the work including Schools, Hospitals, Banks, Shops and Housing. Bonus and Pension Schemes in operation. Salary according to ability. Excellent prospects.—Apply, in confidence, to MESSRS. F. J. LENTON & PARTNERS, A./A.R.I.B.A., 16 Broad-street, Stamford, Lincs.

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS Required for Office in Norwich engaged in hospital, domestic, industrial and commercial work.—Apply, by letter, to A. F. SCOTT & SONS, Architects, 23 Tombland, Norwich.

ASSISTANTS. Assistants, Assistants. Share the Profits (if any). Salaries £500-£1,200 per annum.—STANLEY R. NEVELL & PARTNERS. Abbey 3971.

TRIPE & WAKEHAM, Chartered Architects Require **ASSISTANTS** in all grades to work in their London office on interesting projects both in this country and abroad. Salary by arrangement.—Telephone WELbeck 7744 or write to 16 Fitzhardinge-street, London, W.1, for an appointment.

TAYLOR WOODROW CONSTRUCTION LIMITED

require

ARCHITECTURAL STAFF

at the Head Office in

SOUTHALL

There are vacancies for Qualified and Intermediate Architectural Assistants capable of independent work and for experienced Architectural draughtsmen in a department working on varied Industrial and Commercial schemes. Congenial working conditions. Restaurant. Pension Scheme.

Apply to: Personnel Manager,
345 Ruislip Road, Southall, Middx.
(WAXlow 2366)

CHIPPINDALE & EDMONDSON
CHARTERED ARCHITECTS
BRADFORD

Invite applications for the following vacancies:—
1. Fully **QUALIFIED ARCHITECTS** with several years' experience to take charge of interesting work of all types.
Salary £900—£1,200
2. **ASSISTANTS** of Intermediate Standard capable of preparing working drawings under supervision and taking responsibility for smaller contracts.
Salary £700—£950

Five day week; Pension Scheme; Luncheon vouchers (or equivalent); Salary renewed annually; Travelling expenses paid to applicants who are interviewed.
Replies, endorsed "Staff—Private and Confidential", to **Empire House, Piccadilly, Bradford, Yorkshire.**

A progressive and expanding building and civil engineering organisation requires the services of an

ARCHITECTURAL ASSISTANT

in their Housing Division.

Applicants should be experienced in the design and execution of working drawings in connection with Housing and Flat Development Schemes. Permanent and progressive position. Pension and Luncheon Voucher Schemes. Salary according to ability and experience. *Write or 'phone:*

PERCY BILTON LTD.,
Bilton House, 54-58 Uxbridge Road,
Ealing, W.5.
Telephone EALing 7777.

WIMPEY

An expanding programme of work in the Architects' Department offers good opportunities to

ARCHITECTS AND ASSISTANTS

keen to apply their knowledge and ability to progressive design and construction techniques

The work covers varying types of Industrial, Commercial and Domestic Projects of considerable size and interest.

Permanent appointments, with good salaries, and covering a wide range of experience, are immediately available at Head Office.

Five-day week; Pension scheme available for successful applicants wishing to make a career with the Company.

Applicants should write to:—

E. V. Collings, A.R.I.B.A., Chief Architect,
GEORGE WIMPEY & CO., LIMITED,
27, Hammersmith Grove, London, W.6

ARCHITECTURAL ASSISTANTS

INTERMEDIATE OR FINALS STANDARD

required in

Chief Architect's Office

Interesting and varied work. Five-day week, bonus etc. Appointments permanent and superannuable

Write (in confidence) stating age, experience and salary required to Personnel Manager,

WATES LIMITED,
London Road, Norbury, S.W.16

CADBURY BROTHERS LIMITED
require an
ARCHITECTURAL ASSISTANT

of Final and Intermediate R.I.B.A. standard, to work on a varied and interesting programme. Experience in industrial and commercial building design desirable. Five-day week, attractive working conditions and amenities, pension scheme. Housing accommodation will be provided. Salary according to qualifications and experience.

Write, stating age, qualifications and experience and salary required, to Chief Architect,

Cadbury Brothers Ltd., Bournville, Birmingham

TRIPE & WAKEHAM, Chartered Architects, Require a SENIOR ASSISTANT to supervise construction of interesting and important project abroad. Salary by arrangement.—Telephone WELbeck 7744 or write to 16 Fitzhardinge-street, London, W.1, for an appointment.

SENIOR ASSISTANT Required to work on a variety of large and interesting projects. Modern approach essential, with an ability to take complete charge of jobs from planning stage to completion. Salary £900-£1,000 p.a.—Apply to R. MOUNTFORD PIGOTT & PARTNERS, 3 Cromwell-place, S.W.7. KENsington 1242.

MONRO AND PARTNERS Require ARCHITECTURAL ASSISTANTS of Inter./Final R.I.B.A. standard in their London, Watford, and Glasgow offices for work on interesting industrial, and commercial projects. Salary range £800-£1,000 p.a. Non-contributory Pension Scheme. Five-day week. —Apply in writing to 32 Clarendon-road, Watford.

ARCHITECTURAL ASSISTANTS Required in busy Bloomsbury Office with varied practice. Good salary and prospects for suitable applicants. 5-day week.—Write giving particulars of age, qualifications, experience, etc., to Box 910, c/o 7 Coptic-street, W.C.1.

ARCHITECT, Senior Assistant fully trained or experienced, for office in Middlesbrough or Billingham.—Telephone: ELDER AND LESTER, Stockton 53365; Middlesbrough 3141.

ARCHITECTURAL ASSISTANTS Required in busy West End office. Varied work excellent salary and prospects.—Apply to MAURICE SANDERS, F.R.I.B.A., 24 Harley-street, W.1.

EXCELLENT positions are now being offered by LEWIS SOLOMON, KAYE & PARTNERS. All grades are wanted from Intermediate standard to project senior, for work which includes London's newest hotel, a comprehensive development, schools, luxury flats and theatres. Positions are offered in all categories. Salaries offered will depend on individual qualification or merits. Luncheon vouchers. Five-day week and excellent working conditions.—City 8811.

ARCHITECTURAL ASSISTANT of Intermediate standard Required in City office of multiple Company. Excellent opportunity to gain experience and advancement. Five-day week. Staff restaurant and pension scheme. Salary according to ability and experience.—Reply to Architects' Dept., INTERNATIONAL TEA COMPANY'S STORES, Mitre-square, London, E.C.3.

INTERMEDIATE ASSISTANTS Required immediately in congenial busy office. Good draughtsmanship and enthusiasm are first requirements. Salary by arrangement. Ring for appointment AMB 7271. —MUSMAN & COUSENS, 12 Upper Berkeley-street, W.1.

ALAN W. PIPE & SONS, 8 Queen-street, E.C.4, Require qualified or experienced ASSISTANT ARCHITECT; also JUNIOR ARCHITECTURAL ASSISTANT. A permanent job in a busy and progressive office, mainly industrial and office buildings.—Telephone CITy 7611 for appointment.

EXCELLENT OPPORTUNITIES exist in busy, medium-size firm of Chartered Architects in West End. Vacancies are available in the drawing office and for Assistants who wish to acquire experience in contract supervision and survey work. Qualifications an advantage but not essential. Salary and promotion according to experience and ability to accept responsibility.—Please apply to Box 902, "The Builder."

ARCHITECTURAL ASSISTANTS. Well-known London and Provincial firm of Architects urgently Require a number of ASSISTANT ARCHITECTS, chiefly for commercial and flat development schemes. Salary up to £1,100 according to ability and experience.—Reply, Box 3655, "The Builder."

FOUR ARCHITECTURAL ASSISTANTS Required to work on a number of large schemes. Salary grades ranging from £550 to £1,020. R.I.B.A. Intermediate or Final Standard. Five-day week. Pension Scheme after twelve months. Three weeks' holiday. Car allowance. Holiday arrangements honoured.—Apply, GORDON PAYNE AND PREECE, Rockleigh House, London-road, Gloucester.

ARE YOU INTERESTED IN: (1) High Standard Design? (2) A good salary with prospects of future advancement? (3) Full responsibility for your own contracts? (4) Working in a West End Architect's office with good conditions, five-day week and luncheon vouchers?—If so, ring HYD 1030, or apply, Box 3744, "The Builder."

NORTH & PARTNERS, Chartered Architects, Broadway, Maidenhead, Require additional ARCHITECTURAL ASSISTANTS for widespread and varied practice. Salary range £750-£1,000 per annum.

ENFIELD, MIDDLESEX. Established practice Requires ASSISTANT. Interesting and wide range of work including Hospital, Industrial, Commercial, Domestic, etc. 5-day week, 3 weeks' annual holiday. —Apply, in writing, giving full details of training, experience and salary required, to E. WILLIAM PALMER & PARTNERS, Chartered Architects, 8 The Town, Enfield, Middlesex.

TROPICAL ARCHITECTURE presents unique problems of design and detailing. We need lively minds, enthusiastic spirits and willing hands to help in evolving first-rate solutions. The work of our office with twelve assistants at present, is mainly concerned with Hospital buildings, housing, private houses, small office blocks, libraries, etc., all in West Africa. Applicants should be qualified or nearly qualified. Some office experience an advantage but ability and willingness to learn more important.—Write or 'phone, WELbeck 2915, WILLIAM F. VETTER & KENNETH SCOTT ASSOCIATES, 81 Wimpole-street, London, W.1.

ARCHITECTURAL ASSISTANT or DRAUGHTSMAN, Intermediate standard Required for Architects' Department of Public Company engaged in development of commercial and industrial properties. Salary up to £20 per week.—Write or telephone, Mr. S. M. Haines, TOWN AND COMMERCIAL PROPERTIES, Ltd., 25 Grosvenor-street, London, W.1. HYDe Park 3841.

ARCHITECTURAL ASSISTANT of Intermediate Standard Required by rapidly expanding Building and Development Company in South London, engaged on first-class housing development, including landscaping, flats, maisonettes, etc. Permanent and pensionable position, with excellent opportunities.—Please reply, giving age, full details, and salary required, to Chief Architect, Box 3755, "The Builder."

SENIOR and INTERMEDIATE ASSISTANTS Required by OLIVER LAW & PARTNERS, 36 Ebury-street, S.W.1.

ARCHITECTURAL ASSISTANTS Required at Shrewsbury, Cardiff, Swansea and Newport. The appointments carry good salaries for suitable applicants. The Newport office is on site at Richard Thomas and Baldwins' Spencer Works, and in this case travel and generous subsistence allowances will be made, and a five-day week is in operation. Existing holiday arrangements will be honoured.—Applications, stating age, experience, present salary and choice of office, should be sent to the Secretary, SIR PERCY THOMAS AND SON, 10 Cathedral-road, Cardiff.

ASSISTANTS Required by City Architects. Varied practice. Five-day week, 9-30-5.30. Of special interest to those who seek a position offering scope for responsibility, initiative and opportunity for experience in running jobs from conception to completion. Salaries in accordance with ability and up to £1,400 per annum.—KENNETH LINDY & PARTNERS, 24 St. Mary Axe, E.C.3.

ARCHITECTURAL ASSISTANTS urgently Required for several large projects. 5-day week.—Write or telephone for appointment, GRAHAM CRUMP & DENIS CRUMP, 43 George-street, Croydon. CRO 4907.

ARCHITECTURAL ASSISTANT Required, with at least two years' office experience.—Apply in writing to THOMAS MITCHELL & PARTNERS, 20 Bedford-square, London, W.C.1.

CHIEF ARCHITECT of newly formed ARCHITECTS DEPARTMENT of expanding building and civil engineering organisation requires

ARCHITECTURAL ASSISTANTS

with energetic interest in design and new forms of construction for work at home and abroad. Initiative and keeness as important as experience. West End office, 5-day week and Luncheon Vouchers. Please state age, experience and salary required to

Box 3635, 'The Builder'

GRINLING. Exceptional qualified ASSISTANTS Required at Hyde Park Corner office. Salary £900-£1,100 per annum. Summer holiday by arrangement.—Telephone for appointment BELgravia 6595.

CHELTENHAM ARCHITECTS Require experienced ASSISTANT able and willing to take responsibility. Commencing salary about £800, according to capabilities.—Box 3786, "The Builder."

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON, have immediate vacancies in their London office for Senior and Junior ASSISTANTS. —Write, stating age, salary and experience, to the above, at 3 Park Square Mews, Upper Harley-street, N.W.1.

ARCHITECT'S ASSISTANT Required to work at Dedham on reconstruction of 10 Downing-street, and later on work of a similar nature.—Please reply, in writing, stating age and experience, to RAYMOND ERITH, A.R.A., F.R.I.B.A., Old Exchange, Dedham, Nr. Colchester, Essex.

PRIVATE ARCHITECTS Require an experienced Senior ASSISTANT for interesting and varied work on factories, shops, offices, housing, etc. In close personal contact with the Partners and the jobs and not regimented by the rules and regulations of a large organisation. A substantial salary will be paid in keeping with present conditions and holidays honoured.—Apply, in strict confidence, to the Senior Partner, PERCY V. BURNETT & PARTNERS, 12 Bloomsbury-square, W.C.1. HOLborn 6177.

ARCHITECTURAL ASSISTANT of up to Intermediate R.I.B.A. standard or above, Required by CECIL E. M. FILLMORE, F.R.I.B.A., 20 Waterloo-street, Birmingham. Salary by arrangement, luncheon vouchers.

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies in their Welwyn Garden City office for Senior and Junior ASSISTANTS.—Write, stating age, salary and experience to the above, at Midland Bank Chambers, Welwyn Garden City, Herts.

DESIGNERS

SHOPFITTING DESIGNER (preferably with architectural experience) for interesting work on large Supermarket programme. Good working conditions and staff canteen. Offices in Welwyn Garden City. Salary by arrangement.—Apply, in first instance, to B. R. ARCHER, A.R.I.B.A., A.A.Dip., 2 Mundells, Welwyn Garden City, Hertfordshire.

DRAUGHTSMEN

DRAUGHTSMAN/REPRESENTATIVE Required by busy expanding company manufacturing a wide range of prefabricated concrete buildings. Must be of good appearance, keen, thorough and have some knowledge of the building trade. Would suit young Draughtsman wishing to get on.—F. & D. M. HEWITT, Ltd., Vine Works, Cranleigh, Surrey.

SENIOR DRAUGHTSMAN Required. Shop-fitting experience preferred. Permanent well-paid position. Attractive shopping benefits and other excellent staff amenities.—Apply, Personnel Controller, BENTALLS, Ltd., Kingston-upon-Thames, Surrey.

JUNIOR DRAUGHTSMAN Required in Building Design and Survey Section of ROGERS, CHAPMAN & THOMAS, 125 Gloucester-road, S.W.7. Surveys, ¼ in. and ½ in. details.—Reply, stating age and experience.

AN ARCHITECTURAL OR BUILDING DRAUGHTSMAN

is required by

W. H. ALLEN SONS & COMPANY LTD.

for their

WORKS ENGINEERS DEPARTMENT

Experience of architectural and civil engineering design is necessary and it is desirable that applicants should have had some basic technical training.

The Company offers excellent conditions of service, a contributory Pension and Life Assurance Scheme and a comprehensive range of welfare and recreational amenities. Assistance will be given towards expenses involved in moving to the Bedford area, where appropriate.

Applications should be made in writing, giving details of age, past experience and present salary to:

THE PERSONNEL MANAGER (Ref. 1604C/8)
QUEENS ENGINEERING WORKS,
BEDFORD.

REINFORCED CONCRETE DETAILER Required, age 25-30 years. Five-day week, non-contributory pension scheme and bonus in operation.—Apply by letter giving full particulars, to INDENTED BAR AND CONCRETE ENGINEERING CO., Ltd., 171 Victoria-street, London, S.W.1.

R.C. & STEEL DRAUGHTSMEN Required in Sydney.—See Overseas Section.

CIVIL ENGINEERING DRAUGHTSMAN REQUIRED

with experience in Drawing Office work, Building Construction and Surveying.

Age 21 years or over, preferably holding or studying for Civil Engineering qualifications.

Salary range £426 to £791 per annum according to age and qualifications.

Excellent promotion prospects. 38 hour 5-day week. Canteen. Free and reduced rate travelling facilities. Sick pay arrangements. Superannuation scheme.

Applications in writing stating age, qualifications and/or experience to:

DISTRICT ENGINEER
SOUTHERN REGION
BRITISH RAILWAYS
WOKING
SURREY

BOOTS PURE DRUG CO., LTD.

require a Building Surveyor's Draughtsman to assist in surveys and the preparation of working drawings of minor alterations to shops premises. Applicants should be between 25 and 30 years of age. The appointment is progressive and pensionable after six months' satisfactory service. Applicants should write, giving full details of careers to date, to the Personnel Manager, Station Street, Nottingham, quoting reference No. B.I.

DRAUGHTSMAN for Precast Concrete and Cast Stone in S.W. London. Experienced in obtaining site details, meeting Architects and Builders and preparing working drawings. Salary £700-£800 depending on age and experience. Two weeks' holiday this year. Five-day week.—Apply, with full details, to Box 3654, "The Builder."

WESTMINSTER BANK LIMITED has vacancies for JUNIOR ARCHITECTURAL DRAUGHTSMAN in its Architect's Office in London. Commencing salary £615 to £700.—Write, giving full particulars, to The Architect, WESTMINSTER BANK Ltd., Post Office Court, 10 Lombard-street, London, E.C.3.

JUNIOR DRAUGHTSMAN, Civil Engineering or Architectural. Required by W. H. RADFORD & SON, Consulting Civil Engineers, 57 Goldsmith-street, Nottingham. Salary up to £800, depending upon ability and experience.

CHIEF DRAUGHTSMAN Required for head office of Civil Engineering Contractor near Buckingham Palace.—Write, brief details of experience, age and salary requirements, to Box 8579, LPE, Romano House, 399/401 Strand, London, W.C.2.

BUILDING DRAUGHTSMAN, with good knowledge of construction, some office experience and education to Higher National Certificate level. Excellent opportunity to broaden experience and gain added responsibility. Five-day week. Staff superannuation and life assurance scheme.—Write, stating age, experience and salary required to Christopher Higgins, Personnel Manager, GRANADA THEATRES, Ltd., 149 Regent-street, London, W.1.

EXPERIENCED DRAUGHTSMAN Required with knowledge of Metal Windows, Lantern Lights, Roof Glazing. 5-day week. Canteen facilities. Pension scheme.—Apply, giving particulars of experience and salary required, to Secretary, LUXFER, Ltd., Waxlow-road, Harlesden, N.W.10. Tel. ELGar 7292.

BUILDING DESIGNER/DRAUGHTSMAN

holding H.N.C. (building) or equivalent qualification

Candidates must be fully experienced in general building projects of an industrial nature. Salary up to £1,000 per annum.

This appointment is permanent and pensionable and a 5-day week is in operation. Housing available if necessary.

Please write, stating age, qualifications and experience, to :

SP.A Dept. MICHELIN TYRE CO. LTD., STOKE-ON-TRENT

quoting reference B/545/TB

DRAUGHTSMAN REQUIRED in Estate Department of multiple retail organisation at Marble Arch. Good knowledge of building construction essential. Salary according to ability.—Reply, giving age, experience and salary, to Surveyor, C. & A. MODES, Ltd., P.O. Box 209.

SHOP-FITTING DRAUGHTSMAN Required for preparation of lay-outs for new Super-Markets. Varied and interesting work. 5-day week. Staff canteen. —Apply, in writing, to COOPER & CO's STORES, Ltd., 90-102 Edgware-road, London, W.2, for the attention of Mr. E. M. West, giving details of experience. Salary about £850 per annum, depending on experience.

DRAUGHTSMEN (ARCHITECTURAL) Required in the Architects' Department of RICHARD COSTAIN, Ltd. Interesting work on large, fast-moving contracts, including site visits. Good salaries with regular reviews. Pension scheme. Hours 9-5.30, no Saturdays. London offices near Waterloo Station. Staff canteen and Social club.—Please write, stating age and experience, to Personnel Officer, 111 Westminster Bridge-road, London, S.E.1.

DRAUGHTSMAN, thoroughly experienced in building, not necessarily architecturally trained. Required to prepare working drawings and specifications and take measure of responsibility for alteration and remodelling work. Three weeks' paid holiday. Luncheon vouchers. Bonus scheme. Salary by arrangement. Architect's office, Baker-street area. —Write, Box 3781, "The Builder."

JUNIOR DRAUGHTSMAN Required. 2-3 years' experience. Bonus system. Luncheon Vouchers. Three weeks' paid holiday. Salary by arrangement. —POULTON & FREEMAN, 6a Wyndham-place, W.1.

QUANTITY SURVEYORS

ASSISTANT QUANTITY SURVEYORS Required to work both in London Head Office and on Sites in and around London. Must be conversant with both Building and Civil Engineering Contract procedure. —Reply, giving particulars of age, detailed experience, qualifications and salary required, to: LEONARD FAIRCLOUGH (LONDON), Ltd., Gordon House-road, N.W.5.

QUANTITY SURVEYOR for Builders' office to take charge of Contracts, other than houses, from commencement to Final Account. State experience, salary required and when free to start.—McKEAND SMITH & CO., Ltd., Church-lane, Wolverhampton.

SENIOR and JUNIOR QUANTITY SURVEYORS Required for busy practice in South Yorkshire. Five-day week and non-contributory pension scheme in operation.—Apply, stating age, experience and qualifications, to Box 3511, "The Builder."

CHARTERED QUANTITY SURVEYORS Required for taking-off in busy practice in South Yorkshire. Five-day week and non-contributory pension scheme in operation. Salary up to £1,600 per annum according to age and experience.—Apply to Box 3512, "The Builder."

QUANTITY SURVEYOR Required for Building and Civil Engineering Contractor in the Preston area. Good prospects for suitable applicant.—Write in first instance giving details of experience and salary required, to Box 3538, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF, see advert under heading "Overseas Appointments."

SITE QUANTITY SURVEYORS Required for contracts in S. Wales and N. West areas. Local men preferred. Must have previous site experience in site measurement, taking-off, working-up, negotiations under R.I.B.A. and I.C.E. conditions and be able to prepare interim and final certificates.—Reference number QS.3 to Box 3652, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required. Intermediate to Final Standard. Five-day week, interesting and varied practice.—Write, giving age, and full particulars of experience and salary required, to CROSS & HALL, 28 Victoria-street, S.W.1.

QUANTITY SURVEYOR Required by GEE, WALKER & SLATER, Ltd., at their Derby office. —Applicants, preferably associates of the Institute of Quantity Surveyors, should write, stating education, experience, age and salary required, to P.O. Box No. 42, Uttoxeter Old-road, Derby.

QUANTITY SURVEYOR who specialises in Final Accounts Required by Quantity Surveyors in Medway Towns. Good salary and overtime. Car owner an advantage. Two weeks' paid holiday this year.—Reply, giving brief details of experience and age, to Box 3674, "The Builder."

ASSISTANT QUANTITY SURVEYOR (R.I.C.S. Final Standard) age 25-35. Required by GLEEDS, 106 Regent-street, W.1. Please write giving details of experience and salary required.

SITE QUANTITY SURVEYOR for long-term contract at PORT TALBOT, Glam., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 3696, "The Builder."

SENIOR ASSISTANT Required for London firm of Chartered Quantity Surveyors. Salary up to £1,350 per annum according to age and experience. L.V.s. Five-day week. Overtime paid, and pension scheme. —Please apply to Box 3697, "The Builder."

SITE QUANTITY SURVEYOR, for long-term contract at NEWPORT, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 3698, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Office North Kent. Housing accommodation available.—Please write, stating age, experience and salary required, to Box 3699, "The Builder."

QUANTITY SURVEYOR (City of London) Requires experienced ASSISTANT, professionally trained, to deal with variations, interim valuations and settlement of Final Accounts, for Housing and Flat Contracts. Herts and north Hants areas. Salary will be in accordance with experience. Fair amount of travelling will be involved, for which a car will be provided. Five-day week, with good allowances.—Box 3723, "The Builder."

Frederick Iddison & Johnson

Quantity Surveyors

27 Woodland Road, Darlington.

Invite applications for the vacancies of

SENIOR QUANTITY SURVEYORS

must be A.R.I.C.S., experienced in all branches of the preparation of Bills of Quantities, Interim Valuations and Final Accounts. Large and varied programme of work in hand. Five day week, non-contributory Pension Scheme in operation. Salary according to experience, state experience.

QUANTITY SURVEYORS

and

ASSISTANT QUANTITY SURVEYORS

Required for site measuring, taking off, preparation of estimates and final accounts in the North West based in offices in Manchester and Liverpool.

Applications should be made in writing, giving details of age, experience and salary required to:—

GEORGE WIMPEY & CO. LTD., 629, ECCLES NEW ROAD, SALFORD, 5, Lancs.

ASSISTANT QUANTITY SURVEYOR

required by a rapidly growing **Building and Civil Engineering Company** operating mainly in the Home Counties.

The position offered is progressive and prospects are unlimited for the right applicant who should have had some experience in taking off and site measurement. Candidates should be between 20/30 years of age and a starting salary of £750 per annum is envisaged while future rewards will be commensurate with increasing responsibility.

Box No. 3807, "The Builder"

KYLE, STEWART (CONTRACTORS) LTD.

require

EXPERIENCED QUANTITY SURVEYORS

* * * *

Applications are invited from Senior Surveyors fully competent in handling interim certificates and final accounts for all types of Contracts.

Participation in Company's Bonus, Pension & Health Schemes. Car provided.

Please write giving full details of experience, age and salary required to :—

Managing Director,

Ardshiel House, Empire Way, Wembley, Mdx.

JUNIOR ASSISTANT QUANTITY SURVEYOR (Intermediate I.Q.S. standard) Required for professional office, varied and interesting work, salary according to experience.—Apply H. G. DOUGLAS, F.I.Q.S., 8 Rockstone-place, Southampton.

SITE QUANTITY SURVEYOR Required by firm of Chartered Quantity Surveyors for long-term contracts at Swansea and Llanelly.—Please apply, stating age, experience and salary required, to Box 3750, "The Builder."

LEEDS. CHARTERED QUANTITY SURVEYOR Required for Taking-Off and Final Accounts. Pension and Luncheon Voucher schemes.—Please reply to Box 3760, "The Builder."

DAVIS, BELFIELD AND EVEREST have vacancy for A.R.I.C.S. Permanent appointment. Pension scheme. Luncheon Vouchers. Salary according to experience. Near Victoria Station.—Write, full particulars, to 9, Ashley-place, S.W.1.

CHARTERED QUANTITY SURVEYORS Require ASSISTANT, intermediate standard.—Reply, stating age, experience and salary required, to STANLEY AXTELL & PARTNERS, 28 Monument-street, E.C.3.

QUANTITY SURVEYORS

Building and Civil Engineering Contractors have following vacancies on a large contract in Lancashire.

(1) QUANTITY SURVEYORS

Capable of Site Measurement, preparing valuations and final accounts.

(2) WORKERS UP

Senior and Junior.

Apply in writing giving details of age, experience and salary required. **Box No. 3733, "The Builder".**

ASSISTANT QUANTITY SURVEYOR. Intermediate Standard R.I.C.S., Advanced Stage. Required for estimating, taking-off, working-up and final account work. Varied and interesting building work. Salary by arrangement.—Please write, stating age, experience and qualification, to OVE ARUP & PARTNERS, 13 Fitzroy-street, London, W.1.

A COMPANY of HEATING and VENTILATING ENGINEERS Require a qualified QUANTITY SURVEYOR to specialise in the development of their estimating and pricing section. This newly-created position requires a man with progressive thought based on sound principles, and for which the company must have the knowledge and training of a qualified man. Attractive salary with Superannuation. London area.—Apply, Box 3785, "The Builder." Letters marked "Confidential."

QUANTITY SURVEYOR. An excellent opportunity exists with a well-known firm of Building and Civil Engineering Contractors for a SENIOR SURVEYOR with wide experience in the Building and Civil Engineering Industry and preferably qualified to take charge of all quantity surveying work on a long-term Building and Civil Engineering contract in Cumberland. Excellent prospects, with good salary and entry into superannuation scheme after a probationary period. Applications, giving details of age, training and experience, will be treated in strictest confidence.—Box 3777, "The Builder."

PEMBROKESHIRE.—Vacancy for ASSISTANT in private Quantity Surveyor's office dealing mainly Contractors' work. Experience Contractors' office essential. Write, stating age, experience, salary.—Box 3784, "The Builder."

QUANTITY SURVEYORS are Required in the Central London offices of a company engaged on large contracts in the fields of civil and mechanical engineering. The duties will include contractual work in connection with measurements, progress payments and variations. Salaries will be in accordance with age and experience. The positions are permanent and pensionable. 5-day week.—Applications, giving full details of qualifications, experience, etc., should be sent to Box 3804, "The Builder."

QUANTITY SURVEYOR Required for estimating, taking-off, valuations and settlement of final accounts, and to be Final standard R.I.C.S. Salary range £990-£1034. ASSISTANT QUANTITY SURVEYOR as above but under supervision and to be Intermediate Standard R.I.C.S. Salary range £875-£948. JUNIOR ASSISTANT QUANTITY SURVEYORS for working-up, etc. Salary range £254 at age 17 (Trainees) to £800. Starting salary according to age and experience. Five-day week. Concessionary rail travel.—Apply, giving particulars of age, experience and education, to Chief Civil Engineer (Eastern Region), BRITISH RAILWAYS, King's Cross Station, London, N.1, quoting reference (M.E.).

EXPERIENCED QUANTITY SURVEYOR Required in expanding practice in West End. Luncheon vouchers, pension scheme, five-day week. Overtime on time-and-a-half basis. Holiday arrangements respected.—Box 3824, "The Builder."

QUANTITY SURVEYOR, with experience in taking-off and final accounts, Required in small busy professional office. Permanent position and pleasant conditions.—LESLIE W. CLARK & PARTNERS, 9 Richmond Buildings, Dean-street, W.1.

SURVEYORS

BONUS SURVEYOR Required by Building and Civil Engineering Contractors in N.W. London. 5-day week, pension scheme in operation, canteen facilities.—Write, full particulars of age, experience and expected salary, to Box Z.O., c.o. J. W. VICKERS & CO., Ltd., 7 Great Winchester-street, London, E.C.2.

BUILDING SURVEYOR Required for site measurement and final accounts for housing contracts up to £500,000 in North West Kent area. Aged 30-35. Good prospects and salary for right man.—Write giving details of qualifications, experience and salary required to Box 3613, "The Builder."

BRITISH OVERSEAS AIRWAYS CORPORATION invite applications for the following vacancies in their PROPERTIES & SERVICES BRANCH at LONDON AIRPORT.

BUILDING SURVEYOR

Duties will include preparation of drawings, specifications and estimates for maintenance of, and alterations to, existing property at London Airport and throughout U.K. and Europe. Applicants should be between 25 and 40, preferably qualified Surveyors (R.I.C.S. Building Sub Section) with several years' experience of similar work and with ability to control a number of contracts at any one time. Salary on commencement in the range of £860 to £1,000 per annum.

ASSISTANT STAFF ARCHITECT

Applicants should preferably be single and available for world travel with ability to assume responsibility and act on own initiative. The post calls for first class designers with knowledge of shop fitting work and competency in rapid sketch planning and estimating plus ability to control medium sized projects throughout. Industrial experience will be an advantage with aptitude for dealing speedily with contracts involving alterations to and maintenance of existing property. Salary on commencement in the range of £940 to £1,290 per annum.

ASSISTANT WORKS FOREMAN

Duties will include assisting the Works Foreman in supervision of building craftsmen employed on the maintenance of property at London Airport. Preference will be given to applicants possessing City and Guilds Certificate in a building craft and with good all round experience in similar capacity in building industry. Salary on commencement in the range £14 12s. 6d. to £15 10s. 0d. per week.

These posts are pensionable and are covered by Staff Life and Accident Insurance.

Apply :

Recruitment Manager B.O.A.C., London Airport, Hounslow, Middlesex.

TOKEN CONSTRUCTION COMPANY LTD.

require

SENIOR SURVEYOR

Experienced man required capable of controlling all types of contracts from commencement to final account. Reply to

Personnel Director, 68, Mount St. W.1.

London & N. W. Kent Builders

Have immediate vacancies.

Permanent and Progressive Posts.

SENIOR SURVEYOR

Fully experienced in handling jobs up to £500,000.

ASSNT. SURVEYOR

Age about 25. H. N. Cert. Standard.

ASSNT. ESTIMATOR

Age about 25. H.N. Cert. Standard.

State age, detail experience and salary required to: **Managing Director. Box No. 3805, "The Builder"**

BUILDING SURVEYOR/BUYER Required for progressive Building Contractors in North West Kent area, must be capable of taking-off own quantities and buying for Contract up to £500,000. Aged preferably 30-40. Write, giving details of experience and salary required.—Box 3614, "The Builder."

MEASURING SURVEYOR Required by Chartered Quantity Surveyors near Holborn, for varied contracts. Preparation of interim valuations and final accounts.—Write stating age, experience, etc., to Box 3607, "The Builder."

BUILDING SURVEYOR. Intermediate standard with minimum of two years' good office experience. Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

ENTERPRISING and ambitious SENIOR SITE SURVEYOR Required in Chartered Quantity Surveyors' office to take charge of important and interesting projects. Three weeks' annual holiday and luncheon vouchers. Pension scheme in operation in the office. A salary commensurate with experience will be paid to successful applicant.—Apply stating age, qualifications and salary required, to Box 942, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

BONUS MEASURING SURVEYOR Required by well-established firm to take full responsibility for all bonusing and payments to sub-contractors.—Please reply in writing, stating previous experience, age and salary, to DONALD LOCKHART, Ltd., 295 High-street, Berkhamsted, Herts.

EXPERIENCED SITE SURVEYOR Required by professional firm of Quantity Surveyors, Westminster. Good salary and prospects. Five-day week. Luncheon vouchers. Holiday arrangements respected. Qualifications and experience and salary expected to Box 3542, "The Builder."

JUNIOR SURVEYORS to assist and train under Senior Surveyors in London office. O.N.C.-H.N.C. level and ages 20-28 years.—Details to Executive Director, Y. J. LOVELL (LONDON), Ltd., 4 Endsleigh-gardens, London, W.C.1.

BRISTOL Quantity Surveyors have vacancies for JUNIOR ASSISTANTS for site measuring, interim valuations and final accounts, etc. Apply in confidence in own handwriting, stating age, experience and salary required to B.W. & P.—Box 3559, "The Builder."

MEASURING SURVEYOR Required. Applicants must be experienced in measuring for final account purposes, settlement of sub-contractors' accounts, etc.—Apply, in writing, giving details of age, previous experience, education and salary required, to LAVENDER MCMILLAN (CONTRACTORS), Ltd., 54 Cheam Common-road, Worcester Park, Surrey.

WELL KNOWN National contractors Require SURVEYOR for their Coventry office. Permanent position and good prospects. Non-contributory pension scheme.—Apply, stating age, experience, and salary required, to Box 3657, "The Builder."

GARDINER & THEOBALD have vacancies in their London office for Senior and Junior SURVEYORS. Luncheon vouchers. Pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.1.

EXPERIENCED BONUS SURVEYORS urgently Required for work in the Midlands and Yorkshire. Subsistence payable where applicable.—Apply, stating age, previous experience, and salary required, to GEE, WALKER & SLATER, Ltd., Uttoxeter Old-road, Derby.

PART-TIME SERVICES of SURVEYOR or ASSESSOR Required by small professional firm for negotiation and settlement of insurance claims on buildings. Would suit ex-war damage assessor.—Full details of experience to Box 3767, "The Builder."

ASSISTANT REQUIRED in speculative building department of large Building and Civil Engineering Contractors, experience in taking-off, quantities from drawings for ordering purposes and liaising with purchasers on specific requirements. Holiday arrangements honoured.—Write, stating experience, salary required, etc., Estates Manager, M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

EXPERIENCED BONUS SURVEYOR Required for London contract.—Write, stating age, experience and salary required, to HIGGS & HILL, Ltd., Crown Works, South Lambeth-road, London, S.W.8.

COST/BONUS SURVEYOR, resident in Torbay area, Required immediately. Preferably experienced, but training would be given to young man with knowledge of building construction. Salary commensurate with experience. Travelling expenses paid. Superannuated post with profit-sharing scheme.—Apply, in own writing, to Chief Cost/Bonus Surveyor, STAVERTON CONTRACTORS, Ltd., Totnes, S. Devon.

JUNIOR SITE SURVEYOR Required for large flats contract in Tottenham, near Manor House Tube Station. Some experience in a similar capacity necessary.—Apply, stating age, experience and salary expected, to THOMAS McINERNEY & SONS, Ltd., 27 Clarendon-road, Watford.

ESTIMATING/SURVEYOR. Joinery and Shopfitting. High-class work. Profit-sharing Scheme and non-contributory Pension Scheme.—Write, or 'phone, JAMES WALKER, Ltd., Brunel-road, W.3. SHE 2332.

A VACANCY exists with well-known Building and Civil Engineering Contractors in Birmingham, for a SENIOR SURVEYOR with sound knowledge and experience of Interim Valuations and Final Accounts. A salary range of £1,250/£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and Bonus scheme in operation.—Full particulars to Box 3774, "The Builder."

BUILDING SURVEYOR Required by old-established North Wilts Building Contractors. Must be conversant with preparation of Bills of Quantities, site measurements, interim statements, preparation of final accounts and incentive schemes. Excellent opportunity for young energetic man.—Reply, in writing, stating age, experience and salary required, to Box 3790, "The Builder."

GARDINER & THEOBALD have vacancies for TWO SENIOR SURVEYORS for long-term contract at NEWPORT, Mon. Housing accommodation available.—Please write, stating age, experience and salary required, to 49 Bedford-square, London, W.C.1.

SURVEYOR/ ESTIMATOR

specialising solely in Decorating and Painting works required by National Firm of Contractors. Applicants should have a first-class knowledge of their job with proved experience. The position is progressive with unlimited opportunities. Staff Pension Scheme in operation. Write, please, giving full particulars in first instance to

Box No. 3649, "The Builder"

A. J. WAIT & CO. LTD.

require

SENIOR & ASSISTANT SURVEYORS

for Contracts in the London & Home Counties area. Permanency and prospects for the right applicant. All details in confidence, stating age, training, experience and salary. Apply in writing to **Chief Surveyor, Wellington Crescent, New Malden, Surrey.**

2 EXPERIENCED BUILDING SURVEYORS

required for progressive Builder and Contractor for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from enquiry to final account.

Apply in writing

RICHARDSON,

Herbert House,
Slade Green, Erith, Kent.

CHIEF SURVEYOR & ESTIMATOR

Chief Surveyor and Estimator for Building and Civil Engineering Contracts to take charge of Surveying Department in Manchester Area Office—Salary over £2,000 p.a.

Box 3622, 'The Builder'

TROLLOPE & COLLS LIMITED

require the services of

EXPERIENCED SENIOR BONUS SURVEYOR

for large building contracts principally in London area. Must have sound knowledge of preparation of targets and organisation of bonus schemes. Apply, stating age, experience and salary required to:—

The Assistant Secretary,
Trollope & Colls Ltd.,
1, Noble Street, Gresham Street,
London, E.C.2.

SITE SURVEYOR Required for large works in Berkshire. Applicants should be experienced in measuring building works as executed and preparing interim valuations. The successful applicant will be working under the direction and instructions of a Chartered Quantity Surveyor. Salary £900-£1,000 per annum.—Reply, with full particulars of age, past experience, etc., to Box 3772, "The Builder."

SURVEYOR Required by progressive Building Company with Head Office situated in pleasant Midland town. Experienced in site measuring, interim valuations, final accounts and taking-off quantities for estimating purposes. Some experience in estimating an advantage but not essential.—Write, stating age, experience and salary required, to Box 3779, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required by rapidly expanding company based in S.W. Middlesex, to work under supervision.—Please reply, stating experience and salary required, to Box 3834, "The Builder."

MEASURING SURVEYOR, with experience of Industrial Pipeline contracts. Required for site office in North-East England and Midlands.—Write, stating age, experience and salary required, Box 3830, "The Builder."

FLAT IN LONDON is available for a young BUILDING SURVEYOR prepared to work in a Professional office. He should be able to prepare drawings and specifications for small works, supervise builders, prepare schedules, and do general surveying work.—Write, stating age, experience and salary required, to Box 3817, "The Builder."

MEASURING SURVEYORS

required for most interesting work in London, Portsmouth, Southampton, Basingstoke, and surrounding areas. Only qualifications required are enthusiasm and keenness. Excellent salary and bonus.

Box No. 3849, "The Builder."

SURVEYORS

are required by a London Contractor to take charge of contracts from initial survey to final account, with supervision, if required. Opportunities for experience on a wide variety of interesting buildings.

Pension, staff bonus and holiday this year. Successful applicants will work from Head Office in the west end of London. Expanding business provides opportunities for promotion and regular review of salary.

Write for interview, giving age and experience to

Box No. 3443 'The Builder'

REQUIRED URGENTLY BY CARLTON CONTRACTORS LIMITED

A Member of the 1,500,000 Ideal Building Group

SENIOR SURVEYORS

With experience of large Contracts, both for Housing and General work. Also,

ASSISTANT SURVEYORS

for Site Duties

Permanent pensionable appointment with good prospects are open to keen and satisfactory staff. Written applications please, with full details to:

Personnel Controller,
Carlton House, Epsom, Surrey

SURVEYOR, young, energetic, capable of dealing with sub-contractors and final accounts. Some knowledge of estimating an advantage. Required by S.E. London contractors.—State age, experience, salary, to Box 903, "The Builder."

JOHN LAING AND SON LIMITED

offer interesting and progressive careers to Men holding O.N.C., H.N.C. or H.N.D. (Building) or who are of equivalent standard.

Applicants who are interested in the increasingly important field of

PRODUCTION CONTROL

will find opportunities for development and promotion in departments dealing with Progressing, Site Measurement, Method Study, Labour and Material Control and Analysis.

Encouragement given for study. Superannuation scheme.

Apply stating age to:
Personnel Manager (C.S.5)
John Laing and Son Limited,
London, N.W.7.

ASSISTANT SURVEYORS

ASSISTANT or TRAINEE SURVEYOR for Estimating Department of established Contractors E. London area. H.N.C. desirable. Position offers good prospects, is permanent and pensionable after probationary period.—Write, giving full details education, experience and salary required, to Box 3682, "The Builder."

ASSISTANT SURVEYOR/ESTIMATOR, age 27-35, Required. Knowledge of Air Ministry contracts; W.D. schedule; Sports Ground and Landscape contracts would be advantageous.—TURFSOIL, Ltd., 58 Westcombe Hill, Greenwich, S.E.10.

ASSISTANT SURVEYORS (aged 22-27) Required for varied and interesting work including Taking-Off, Site Measuring, Estimating, Bonusing, Planning and Job Management in all classes of building work. Experience in all fields not essential. Excellent prospects to progress with this expanding group of companies.—Apply to Mr. Kift, WRAIGHT Ltd., 23 London-road, Sittingbourne. 'Phone: 666.

DAVID GREIG, Ltd. Require an ASSISTANT, aged between 25 and 35, for their Maintenance Department. Duties would include preparation of specifications for the modernisation, repair and maintenance of their shop and other property in the West Country. The applicant, who would be based in Bristol, would be expected to be able to plan, execute and pass final accounts for works up to £10,000. There is a pension scheme.—Write, giving details of qualifications, experience and salary required, to Managing Director, DAVID GREIG, Ltd., 145 Waterloo-road, London, S.E.1.

ASSISTANT SURVEYOR Required, aged 21-23, capable Worker-up, for West End Quantity Surveyor's office dealing with large contracts. Luncheon vouchers. Five-day week.—Box 3823, "The Builder."

JUNIORS

JUNIOR shortly Required for Quantity Surveyors' office in Victoria area. Excellent opportunity for professional training. Five-day week. Luncheon Vouchers provided.—Write, stating age, education, etc., Box 3749, "The Builder."

JUNIOR ASSISTANTS (THREE) with some previous experience. Required in busy West End Quantity Surveyor's office with ample scope for advancement. Five-day week. Luncheon vouchers.—Please write, giving age and details of experience, Box 3822, "The Builder."

JUNIOR Required by Quantity Surveyors, with or without experience. Small, busy, pleasant office, with opportunities for advancement.—LESLIE W. CLARK & PARTNERS, 9 Richmond Buildings, Dean-street, W.1.

CHARTERED QUANTITY SURVEYORS, St. John's Wood, Require young man leaving school July as articled pupil. No premium required and salary paid. Applicants must hold G.C.E. (including English and Maths).—Write, stating age and education, to Box 3811, "The Builder."

TRAINEES IN SURVEYING

HUMPHREYS LTD.,
Building and Civil Engineering Contractors,
199, Knightsbridge, S.W.7

Young men 16—20 with not less than five G.C.E. subjects at 'O' level who wish to enter the building and civil engineering industry are offered the opportunity of training in all branches of Surveying. Good salary and conditions, and assisted tuition scheme. School leavers at end of the Summer term are particularly invited to apply for an early interview. Please write to the Personnel Department.

TAKERS OFF

WESTMINSTER QUANTITY SURVEYORS have a vacancy for a recently qualified TAKER-OFF. Salary £900-£1,000. Pension scheme, luncheon vouchers, 5-day week. In addition to normal duties experience will be provided in cost control methods and the post should be of particular interest to a young Quantity Surveyor who has a penchant for research. —Apply, in writing, to LEMON & BLIZARD, 59 Tufton-street, London, S.W.1.

TAKERS-OFF (Senior and Junior) Required by REYNOLDS & YOUNG, Chartered Quantity Surveyors, 329 High Holborn, London, W.C.1. Five-day week, pension scheme, lunch vouchers.—Reply to above address, stating age, experience and salary required.

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply in writing stating age and experience to Box 961, "The Builder."

SENIOR AND JUNIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary, Overtime, Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

HIGHLY experienced TAKERS-OFF Required in Chartered Quantity Surveyors' office on work on substantial, varied and interesting projects. A high professional standard is maintained in the office and only applicants with considerable experience should apply. West Central area. Three weeks' annual holiday and luncheon vouchers. Pension scheme is in operation in the office.—Apply stating age, qualifications, experience and salary required, to Box 907, "The Builder."

DEARLE & HENDERSON Require keen, qualified TAKERS-OFF for their London and Maidstone offices. Pension scheme, 5-day week. High salary offered to right applicants.—Reply, 75 Victoria-street, S.W.1, or 'phone ABBey 2841.

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Pension scheme. Luncheon vouchers.—Please write, stating age, experience and salary required, to Box 3700, "The Builder."

LONDON FIRM of Chartered Quantity Surveyors Require experienced TAKER OFF for long-term contract in South Wales.—Please apply, stating age, experience and salary required, to Box 3701, "The Builder."

SENIOR TAKER-OFF Required by Victoria Chartered Quantity Surveyors. Five-day week, Luncheon Vouchers. Overtime at increased rate. Top salary for proved experience.—Write, giving details, to Box 3679, "The Builder."

CHARTERED QUANTITY SURVEYORS Require TAKER OFF, willing to make visits abroad.—Please reply, stating age, experience, qualifications and whether married, to Box 3680, "The Builder."

TAKER-OFF Required by Westminster Chartered Quantity Surveyor's office. L.V. Five-day week.—Write in own handwriting stating age and salary required, Box 3716, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors, medium-size office, Westminster. L.V. and Pension Scheme.—Write stating age, experience and salary required, Box 3721, "The Builder."

CHARTERED Quantity Surveyor (London, W.1) Requires competent TAKERS-OFF. Highest salary for suitable applicants. Varied and interesting contracts.—Write stating age, experience and salary required to Box 3727, "The Builder."

TAKER-OFF Required with not less than 2 years' experience in Taking-off. Some unusually interesting contracts. Please state age, experience and salary required.—BASIL A. COHEN, 60 Berners-street, London, W.1.

LONDON office Requires experienced TAKER-OFF, age 27/35 for permanent situation commencing £1,300 p.a. Guaranteed minimum for first year, including overtime, £1,600 p.a.; 2 weeks' holiday September.—Box 3595, "The Builder."

SENIOR TAKER-OFF Required by Professional firm of Quantity Surveyors, Westminster. Five-day week. Luncheon Vouchers. Starting salary not less than £1,200 with good prospects. Holiday arrangements respected.—Qualifications and experience to Box 3457, "The Builder."

EXPERIENCED TAKER-OFF Required in Quantity Surveyor's Office.—Reply, stating age, experience and salary required, to E. R. BABBS & SONS, 187 Piccadilly, London, W.1.

JUNIOR TAKER-OFF required to fill permanent staff vacancy. Five-day week, pension scheme, holiday arrangements honoured.—Details of experience, salary, etc., in handwriting, to A. E. THORNTON-FIRKIN & PARTNERS, 17 Fitzhardinge-street, W.1.

AUSTRALIA. Vacancies for TAKERS-OFF, see advert under "Overseas Appointments."

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 3562, "The Builder."

TAKER-OFF Required, age 24-30, by London firm of Quantity Surveyors. Excellent opportunities for advancement.—Box 3566, "The Builder."

YOUNG TAKER-OFF with at least 10 years' experience in a Quantity Surveyor's office, Required for permanent situation in London. Commencing £1,300 p.a. Considerable overtime at increased rate. Holiday this year.—Box 3596, "The Builder."

SYDNEY, Australia. Experienced TAKER-OFF Required. £A1 p.h., 50-hr. week, 1 yr. contract. Fares paid both ways.—Box 3597, "The Builder."

SYDNEY, Australia. Young TAKER-OFF with at least 10 years' experience in a Quantity Surveyor's office, Required for 1½ yr. contract. Commencing salary £A2,000. Return fares paid.—Box 3598, "The Builder."

JUNIOR TAKER-OFF Required by Central London firm of C.Q.S. (A.R.I.C.S. preferred). Salary £750-£950. L.Vs. Five-day week and holiday this year. —Box 982, "The Builder."

JUNIOR and SENIOR TAKERS-OFF and MEASURING SURVEYORS Required in City Chartered Quantity Surveyors' office.—Write, stating age, experience and salary required, Box 3753, "The Builder."

EXPERIENCED TAKER-OFF Required to prepare bills of quantities for pricing for R.C. framed structures, hollow tile floors, etc. Five-day week. Pension scheme.—Apply, in writing, stating age, experience and salary required, to the Secretary, CAXTON REINFORCED CONCRETE, Ltd., 45 Bedford-row, London, W.C.1.

JUNIOR TAKER-OFF, intermediate R.I.C.S. Standard, Required by West End Chartered Quantity Surveyor. Excellent opportunity to gain experience offered to enthusiastic worker.—L. R. KINSLER & PARTNERS. HYDe Park 5522.

JUNIOR TAKERS-OFF Required in their Westminster and Derby offices by Chartered Quantity Surveyors. Applicants considered who have no previous experience of taking-off but who are studying for or have passed Inter R.I.C.S. and have had good experience in working-up.—Write, Box 3791, "The Builder."

TAKERS-OFF Required by West End Quantity Surveyor for permanent pensionable appointments.—Write, stating age, experience, and salary required, Box 3825, "The Builder."

PROFESSIONAL Q.S. office in Middlesex offers periodic work to experienced, reliable, free-lance TAKER-OFF.—Write, giving details of qualifications, experience and availability, to Box 3809, "The Builder."

TAKER-OFF, with not less than four years' experience, Required for busy South Bucks Quantity Surveyors' office.—Details to Box 3836, "The Builder."

JUNIOR ASSISTANT wishing to start Taking-off but willing to assist with Working-up in small office.—MARTIN SHAW, Chartered Quantity Surveyors, 68 Great Russell-street, W.C.1. HOLborn 0236/5081.

TAKER-OFF (A.R.I.C.S. preferred). Salary around £1,000 per annum and also WORKER-UP (inter. R.I.C.S. standard). Salary around £700 per annum. Required by C.Q.S. for rapidly expanding practice with work of a varied nature in London and the provinces. Both positions offer considerable scope for advancement. 5-day week and holiday arrangements met.—Write, with details of experience, to D. A. DEGERDON, F.R.I.C.S., 12 Goodwin's Court, St. Martin's-lane, W.C.2.

EXPERIENCED TAKER-OFF urgently Required for permanent position in London professional office. Taking-off and Final Accounts. Basic salary up to £1,550 per annum for capable Assistant.—Box 3846, "The Builder."

TAKER-OFF Required in small office in Victoria area. Good prospects for advancement.—Write, stating age, experience and salary required, to Box 3857, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

WORKERS UP

WORKERS-UP Required by TUCKER AND HUNTLEY, 110 Old Brompton-road, S.W.7.—Telephone for appointment, FREmantle 7457.

SENIOR WORKER-UP Required by professional firm of Quantity Surveyors, Westminster. Permanent position with good prospects. Five-day week. Luncheon vouchers. Holiday arrangements respected.—Qualifications and experience and salary required to Box 3540, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

EXPERIENCED WORKERS-UP and intelligent JUNIORS wishing to train for and qualify as Chartered Quantity Surveyors Required in Bloomsbury Chartered Quantity Surveyors' office. First-class working conditions, including luncheon vouchers and opportunities for progressive training offered to suitable applicants.—Apply stating age, experience, if any, and salary required, to Box 937, "The Builder."

WORKER-UP Required. Salary range £620 to £950 according to age and experience. Compulsory superannuation. Five-day week.—Apply, R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 99 Leman-street, E.1.

WORKER-UP/JUNIOR TAKER-OFF Required by London firm of Quantity Surveyors. Excellent opportunities for advancement.—Box 3567, "The Builder."

EXPERIENCED WORKER-UP aged 25/35 Required for permanent situation in London. Commencing £1,000 p.a. Considerable overtime at increased rate. 2 weeks' holiday September.—Box 3599, "The Builder."

Experienced

WORKER-UP

required in professional office in Westminster. Reply giving age, experience and salary required to

Box No. 3812 "The Builder"

EXPERIENCED WORKER-UP Required in London. Basic commencing salary £1,000 p.a. Guaranteed minimum, including overtime, in first year £1,250. Holiday this year.—Box 3600, "The Builder."

CHARTERED QUANTITY SURVEYORS Require experienced WORKER-UP in their Harlow, Essex, office. A good salary and house to rent would be available to suitable candidate who should have professional office experience. Interview in London if desired.—Box 3659, "The Builder."

WORKER-UP for long-term contract at NEWPORT, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please write, stating age, experience and salary required, to Box 3702, "The Builder."

WORKER-UP, for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and L.Vs.—Please write, stating age, experience and salary required, to Box 3703, "The Builder."

EXPANDING Chartered Quantity Surveyors Require WORKER-UP, with at least three years' professional experience. Team spirit essential.—Write, stating age, experience and present salary, to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, Lee, S.E.12.

WORKER-UP Required by Westminster Chartered Quantity Surveyor's office. Good opportunities. L.V. Five-day week.—Write in own handwriting stating age and salary required, Box 3717, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors for Sussex coast office. L.V. Five-day week. Write in own handwriting stating age and salary required, Box 3718, "The Builder."

SENIOR WORKER-UP Required by Victoria Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to Box 3719, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster.—State experience, age and salary required, to Box 3670, "The Builder."

WORKER-UP, well educated, not less than 18 months' actual working-up experience for approximately half-time working-up, remainder assisting in variations, certificates, etc. Small office, S.W.1.—Box 3768, "The Builder."

WORKER-UP Required for medium-sized Chartered Quantity Surveying practice in West End. Good opportunity for competent and enthusiastic worker. —L. R. KINSLER & PARTNERS. 'Phone: HYDe Park 5522.

CHARTERED QUANTITY SURVEYORS in West London district Require competent WORKER-UP. Permanent position with good prospects. 5-day week, hours 9-5.30, luncheon vouchers, fortnight's holiday. Salary £54 per month. Time-and-a-quarter overtime paid.—Reply, Box 3794, "The Builder."

WORKER-UP, with not less than three years' experience, Required for busy South Bucks Quantity Surveyors' office.—Details to Box 3835, "The Builder."

EXPERIENCED WORKER-UP Required for permanent position in London professional office. Basic salary up to £1,000 per annum.—Box 3845, "The Builder."

WORKER-UP Required in small office in Victoria area. Good prospects for advancement.—Write, stating age, experience and salary required, to Box 3856, "The Builder."

ENGINEERS

SITE ENGINEERS Required for building contracts London area. Must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply, in writing, stating age and experience, M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

PLANNING ENGINEERS Required for the planning department of Civil Engineers, with good site experience in building and civil engineering work, and with some planning experience, to be employed in connection with the Company's projects in the London area. Excellent prospects, pension scheme. —Apply, stating qualifications, experience and salary required, to M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

R.C. & STEEL ENGINEERS Required in Sydney.—See Overseas Section.

SITE ENGINEERS

Required by a rapidly growing Building and Civil Engineering Company for housing and general contracts in the Home Counties. Applicants should be between 25 and 40 years of age and preference will be given to those who have a recognized qualification in the industry.

Experience in the setting out and supervising of roads and sewers is essential while a starting salary of over £1,000 per annum is envisaged. Future rewards will be commensurate with increasing responsibility and the successful applicant will be eligible for the Company's sickness and pension schemes.

Box No. 3808, "The Builder"

HOLLOWAY BROTHERS (LONDON) LTD.

have a vacancy in their

BUILDING DIVISION for an

ASSISTANT STRUCTURAL ENGINEER

HOLLOWAYS

Applicants should be aged 25 to 35 and have experience in design and detailing of reinforced concrete and steel structures. A knowledge of building construction and contracting work would be an advantage.

Applicants should preferably be qualified Structural Engineers.

The Company offers 5-day week, three weeks annual holiday and operates a contributory Pension Scheme.

Applications giving details of age, experience and qualifications should be sent to:

The Secretary,
157, Millbank, London, S.W.1

A firm of National Contractors require the services of a

PROJECTS ENGINEER

to organize a

PLANNING and PROGRESSING

Section within the Company. The post is a senior one, permanent and pensionable, and the successful applicant will be based in the London Office. Please write giving details of age, experience and salary required to

Box No. 3850, "The Builder"

ENGINEER

CONTRACTS SUPERVISOR

Wanted Engineer/Agent capable of handling medium sized high quality reinforced concrete contracts. Accurate instrument work and attention to detail, and methods of construction essential. Excellent opportunity for keen and energetic man. Permanent position to suitable applicant. Superannuation scheme in operation. Apply in writing stating age, experience with past employers and salary required etc.

J. L. EVE CONSTRUCTION CO. LTD.,
17 Hillside, Ridgway, WIMBLEDON. SW19.

SETTING-OUT ENGINEERS

required for important contracts in London and the Southern Counties. The positions are permanent and pensionable, and offer good scope for progress. Applications should give full details of age, technical training, experience and salary required to:

Box SE 3515,
A.K. Advg., 212a, Shaftesbury Avenue,
London, W.C.2

TAYLOR WOODROW GROUP

require

SOILS ENGINEER

aged 25/30 years, preferably with B.Sc. or Diploma in Civil Engineering. Should have at least two years' practical and laboratory experience. Preferably single and with some experience of contract work.

also

Junior

CIVIL ENGINEERS

required for road contract overseas. Successful applicants will be given some training in soils mechanics before proceeding overseas. Preference will be given to single men with B.Sc. or Diploma in Civil Engineering. Previous experience of Soils Mechanics desirable but not essential.

Write, giving full details, to

Personnel Manager

Taylor Woodrow (Overseas) Limited,
Western House, Western Avenue, Ealing, W.5

ESTIMATORS

SCAFFOLDING ESTIMATOR Required, experienced in all types of scaffolding. Contributory pension scheme and car provided.—Apply in writing to STEEL SCAFFOLDING CO., Ltd., 18 Union-road, S.W.4.

ESTIMATOR, experienced price build up, flats, houses, schools, factories, etc. Permanent, pensionable, good opportunity. South coast contractor.—Ring Worthing 7895.

JUNIOR ESTIMATOR/SURVEYOR Required.—Reply stating age, experience and salary required to WILLIAM WILLETT (BUILDERS & DECORATORS) Ltd., Sloane-square, S.W.1.

ESTIMATOR/SURVEYOR Required in General Works Department. Able to prepare Estimates and supervise jobs to final account.—Write, with full details of age, experience and salary required, Secretary, KILLBY AND GAYFORD, Ltd., 87 Worship-street, E.C.2.

ESTIMATOR/SURVEYOR Required for medium-sized Builders in East London for contracts up to £70,000. Permanent and pensionable position. Holiday commitments honoured this year.—Write, giving full details of age, experience and salary required, to Box 3636, "The Builder."

BUILDERS' ESTIMATOR/SURVEYOR Required by old-established N.E. Hampshire firm of Building Contractors. Applicants who have had experience in Estimating, taking-off quantities and capable of producing working drawings and preparation of interim and final accounts should reply, stating age, salary required and giving full particulars of previous experience to Box 3620, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required by medium-sized builders and contractors in Reading area. Applicant must be capable of dealing with contracts up to £30,000 from enquiry to final account with the minimum amount of supervision. House available.—Apply, in writing, stating age, experience and salary required, to FRANCIS BROS. (BUILDERS) LTD., 11 Armour-rd., Reading.

TAYLOR WOODROW

require

BUILDING ESTIMATOR

Applications are invited for capable estimators experienced in all forms of building contract work. Scope of work provides for varied and interesting tendering in London office for overseas contracts.

Write to:—

OVERSEAS PERSONNEL MANAGER
Taylor Woodrow Services Ltd.,
Western House, Western Avenue,
Ealing, London, W.5.

SENIOR ESTIMATOR

required immediately for well-known London Contractors. The appointment is to permanent staff and is pensionable. Please send full details, in strict confidence to

Box SE.3501, A.K. Advtg.,
12a Shaftesbury Ave., London, W.C.2

SENIOR ESTIMATOR

required by

A. E. SYMES LIMITED

Applicants should be fully experienced in pricing bills of quantities for a wide variety of building work, the position is permanent with good salary and bonus, Pension and Life Assurance Scheme, existing holiday commitments will be honoured, apply in writing giving details of age, experience, salary required to:—

Managing Director,
A. E. SYMES LIMITED,
236-252, High Street,
Stratford, London, E.15.

TAYLOR WOODROW
CONSTRUCTION LIMITED

require experienced building

ESTIMATORS

Applicants must be experienced in large scale works. Pension Scheme. Excellent opportunities.

Write giving brief details of experience and present employment, which will be treated in strict confidence, to:

PERSONNEL MANAGER,
345 RUISLIP ROAD,
SOUTHALL, MIDDLESEX.

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London. Excellent prospects for suitable applicant. Apply in writing, stating age, experience and salary required to

Box No. 921 "The Builder"

KYLE, STEWART (CONTRACTORS) LTD.

Require services of

SENIOR ESTIMATOR

Write giving details of age, experience & salary required. Successful applicant will be provided with a car, participate in Company's Pension, Health & Bonus schemes. Only those with wide experience should apply:–

Managing Director, Ardshiel House, Empire Way, Wembley, Mddx.

ESTIMATOR/ SUPERVISOR

required for Small Works Department of West End Builders specialising in good class alterations and decorations. Contracts up to £15,000.

Write, stating age, experience and salary to

Box 3548, " The Builder "

BUILDING ESTIMATOR/SURVEYOR

Opportunity for progressive, energetic, experienced man, about 25/35, in substantial Builders/Decorators, Kingston, Surrey. Estimate to final account, including site supervision. Salary range £800/£1,000 to commence. Holiday this year. Pension. Send full details in strict confidence to:

Box 3529, ' The Builder '

ASSISTANT ESTIMATOR/SURVEYOR Required by small old-established company. London Bridge area Able to prepare own quantities and competent to manage small contracts from enquiry to final account. Excellent prospects for keen energetic young man with experience.—Applications, stating age, experience and salary required, to Box 3662, " The Builder."

ESTIMATOR Required by large London builders, with previous experience of pricing Bills of Quantities taking-off and final accounts for new work, alterations, etc., up to £15,000. Excellent opportunity of progressing on to larger contracts. Position is permanent with pension and life assurance scheme. Alternate Saturdays free. Luncheon Vouchers available. Holiday commitments will be honoured.—Reply, stating age, experience and salary required, to Box 3661, " The Builder."

ESTIMATOR SURVEYOR (Junior) Required in large London Builders' Office. Work involves measuring sub-contractors' work, preparation of small estimates. Excellent opportunity of advancement. Good amenities and pension scheme.—Reply stating age, experience and salary required to Box 3720, " The Builder."

ESTIMATOR (ASSISTANT). Young man, experienced quantities and some knowledge of estimating, required to assist in preparation of estimates for r.c. frame constructions. Permanent position with good prospects. West End office of building and civil engineering contractors.—Write particulars of age, training, experience and salary required, to Box 3656, " The Builder."

ESTIMATOR/SURVEYOR Required for plastering firm. Experience essential. Good salary and prospects for suitable applicant. Car provided. —Write, in confidence, stating age and experience, Box 3747, " The Builder."

ESTIMATOR / SUPERVISOR Required. General building works and decorations up to £30,000.—Write, all details, Box 3759, " The Builder."

ESTIMATOR Required by W.2 Builder employing 40-50 men. Must be experienced in pricing all types of small works usually £100-£10,000, supervising during progress and settling final accounts. State age, experience and salary.—Box 3758, " The Builder."

ESTIMATOR Required for Small Works Department. Must be fully experienced in Site Measurement all Trades, taking-off and pricing from Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply, in writing, stating age, experience and salary required, to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

PLUMBING and HEATING ESTIMATOR.—R. D. HOPE & CO., Ltd., Building Contractors, 15 Selsdon-road, South Croydon. Require young man immediately, capable of estimating domestic and small industrial plumbing and heating installations and alterations, including design and specification. This position offers exceptional scope for advancement.—Apply for interview to Mr. Lott (CRO 9262). Existing holiday arrangements honoured.

ESTIMATES ASSISTANT Required by City Builders. Keen and energetic young man with experience of measuring in either Builders' or Quantity Surveyors' offices. Typing an advantage.—Box 3853, " The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required by established Croydon Builders. Must have good training, able to prepare estimates and supervise up to final account, building works, alterations and decorations.—Write, stating age, experience and salary required, Box 3828, " The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required for Middlesex office. Must have good training, be able to prepare interim accounts and measure sub-contractors. Good prospects for keen, energetic young man.—Apply, Box 3814, " The Builder."

MANAGERS

FLOORING CONTRACTS MANAGER, with thorough knowledge of Terrazzo. High salary offered to capable and experienced man.—Telephone: VIC 0566.

ANYONE UNDER 32 YEARS OF AGE who considers they have aptitude for management of any kind in specialist painting and plastering businesses should send details of position and salary required, to Kenneth Melling, Personal Assistant to the Chairman of the H.A.T. GROUP, 3/5 St. Pauls-road, Bristol 8, quoting Ref. A.P.P.

ASSISTANT MANAGER

required for West Middlesex Branch of London Contractors. Specialising in alterations and decorations. Must be able to estimate and supervise contracts and work on own initiative.

Car driver preferred. Write stating age, experience and salary required to

Box No. 3689, "The Builder"

CONTRACTS MANAGER Required by expanding, well-established firm of Contractors in S.E. London. Must have held similar position and able to organise, thoroughly cost conscious and able to inject drive into contracts under his control. Permanent and progressive appointment to the right man.—Write giving past employers and brief experience, age and salary required to Box 965, " The Builder."

PAINTING CONTRACTORS Require MANAGING DIRECTOR for a subsidiary provincial company in the South of England. Must be capable estimator, surveyor trained. Commencing salary £1,750 per annum plus a substantial percentage of profits. Position advised present staff.—Apply, Box 3537, " The Builder," quoting Ref. P.C.M.D.

REQUIRED by Roofing Contractors for busy contracts department, MALE ASSISTANT aged 23-35 years. Must be quick at figures and good organiser. Opportunity to take charge when proficient. Salary according to age and ability.—Write Box 3546, " The Builder."

CONTRACTS MANAGER Required Southern Counties, experienced flats, houses, schools, factories, etc. Permanent, pensionable, good salary and production bonus.—Write full details DRURY CONSTRUCTION (SOUTHERN) Ltd., 4 Farncombe-road, Worthing.

BUILDERS ASSISTANT MANAGER Required, capable of taking off quantities, preparing estimates and supervising work in a thriving country business in Hampshire, and later to take over the sole management.—Apply, with full particulars, to Box 3684, " The Builder."

ASSISTANT TO MANAGER. Estimating Experience and General Knowledge of Buying and Preparation of Materials Schedules.—Apply, R. E. STYLES (DITTON), Ltd., 9 South Bank, Long Ditton, Surrey. EMB 4945.

JOINERY MANUFACTURERS Require ASSISTANT for WORKS MANAGER. This opening, for ambitious man with ability, initiative and knowledge of high-class production, will provide interesting and challenging post, excellent salary and prospects. Pension scheme. Applicants must give fullest details of experience. No wishful thinkers please. —Apply, Box 3640, " The Builder."

MANAGER Required by small Building Contractors in Wokingham, Berkshire. Must be able to estimate for work and organise labour and jobs.—Apply, giving age, experience and salary required, to H. G. ADAMS (ARBORFIELD) Ltd., The Terrace, Wokingham.

WEST COUNTRY Building firm of medium size Requires competent man to manage yard, stores and transport. Must have good knowledge of the trade. Salary commensurate with experience and ability. Age up to 45.—Write, stating age and experience, to Box 3761, " The Builder."

MANAGER Required to train for Director of Building Company in North London. The business is mainly speculative with a turnover of £250,000. Applicants between 30 and 45 should have similar experience, sound practical training for office or site, and a good business sense.—Apply, stating age, experience since 1945 and salary required, to Box 3763, " The Builder."

OFFICE MANAGER Required for rapidly expanding business. Experience in office organisation, invoicing and costing systems essential; also knowledge of Bills of Quantities.—Apply, giving full details of experience and salary required, to KENDELL'S FLOORING, Ltd., 97 East-street, Epsom.

MANAGER Required for plumbing and hot water fitting department of medium-size building contractors. Applicants should have had some experience in a similar capacity and be capable of preparing designs and estimates for small plumbing and heating systems.—Apply, stating salary required, to COULSON & SON, Ltd., 37 St. Andrew's-street, Cambridge.

SENIOR ESTIMATOR

required for expanding Watford Builders' Office. **Salary £1,500 per annum,** progressive. Pension scheme, life assurance and bonus. Three weeks' holiday per year, this year's holiday arrangements honoured. This position is offered to a man with a successful record in estimating for contracts up to approximately £500,000, with particular emphasis on multi-storey construction. Apply, in the strictest confidence, with all relevant particulars to **Box No. 3639.**

An

ASSISTANT SALES MANAGER

required

by Joinery Manufacturers. A progressive position for a man who has a knowledge of Joinery or kindred trade.
Rapid expansion is taking place and a good future is assured.
Apply, stating age and present salary, to :—

S. A. Grant,
AUSTINS OF EAST HAM LTD.,
London, E.6.

COMPANY SECRETARY

Company Secretary and Accountant with experience of Building and Development Companies and Office Management.

Exceptional appointment for man with drive and initiative. Salary commensurate with previous experience.

Full details to be sent in confidence to:

Box 3547, 'The Builder'

SITE MANAGER

required for large Sewerage Scheme in Essex. £1,500 per annum. Bonus, Pension Scheme after satisfactory probationary period. This year's holiday arrangements honoured. Applicants must be fully experienced and capable of taking complete control of the organization and running of the contract. Permanent and progressive position offered to right man. Apply in confidence to:

Box No. 3806, "The Builder."

DEPOT MANAGER

Broad & Co. Ltd. invite applications for the post of Manager of their main Builders Merchants Depot at Paddington.

The successful candidate must be capable of co-operating with staff at all levels and of managing men.

Responsibilities will include receipt and warehousing of goods, organisation of order processing and assembly, and the routing and loading of a fleet of vehicles.

Whilst a knowledge of the trade would be an advantage, administrative and organising ability is most essential.

The Salary will be £1000/£1,200 p.a. and there is a contributory pension scheme with generous free life insurance.

Apply in writing, stating full details of age and previous occupations.

CONTRACTS MANAGER, age 25/35, Required by old-established firm of Building Contractors. Position offers good prospects and is pensionable after probationary period. Qualifications should include some previous experience of site supervision and contracts management and A. or L.I.O.B. or H.N.C.—Write, brief details of education, experience and salary required, to HAMMOND & MILES, Ltd., Scrafton-road Works, Ilford.

ASSISTANT MANAGER for Roofing Department Required. Fully capable of attending to general correspondence and routine of office. Knowledge of estimating and roof techniques essential.—Apply, in writing, Secretary, W. T. LAMB & SONS, Ltd., 35 New Bridge-street, E.C.4.

MANAGER—SMALL WORKS

Opportunity to expand small business. Good salary and bonus to experienced man. Good flat available—Wimbledon.

Box 3624, 'The Builder'

CLERKS OF WORKS

CLERK OF WORKS Required for interesting commercial project in Hammersmith area. The contract will commence mid-August with completion in May, 1961. Salary £90 per month.—Tel. CITy 4760 for appointment.

CLERK OF WORKS Required for large project, by RONALD WARD & PARTNERS, 29 Chesham-place, Belgrave-square, S.W.1. BELgravia 3361.

CLERK OF WORKS. Applications are invited for the above appointment in connection with the erection of a new Central Premises for the Brightside and Carbrook Co-operative Society, Ltd. The building is four and five storeys high with a basement and will be of reinforced concrete construction. The appointment will be for a period of approximately 2/3 years commencing late August, 1960.—Applications, stating age, experience, qualifications, salary required, together with the names of two referees, to be addressed to G. S. Hay, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 1 Balloon-street, Manchester, 4, endorsed "Clerk of Works."

CLERK OF WORKS Required for Reading contract. Must be fully conversant with modern reinforced concrete construction, etc. Top salary paid to right applicant. 18 month minimum contract.—Please write to E. NORMAN-BAILEY & PARTNERS, 25/27 Catherine-place, London, S.W.1, for appointment.

EXPERIENCED CLERK OF WORKS Required at once, for 18 months to two year contract, on civil engineering work in respect of chemical plant in Manchester. Salary £1,000 per annum with prospect of extension contract.—Box 3844, "The Builder."

Clerks of Works, Quantity Surveyors, Estimators and Takers-Off

who are interested in their future prospects, are required in the Southern and Midland Divisions of a rapidly expanding organisation using new techniques. Ability and enterprise are considered more important than qualifications. Substantial Bonus and Superannuation Schemes in operation. Replies in confidence to **Personnel Manager, Atcost Ltd., Tunbridge Wells, Kent.**

BUYERS

CHIEF BUYER Required in progressive and expanding organisation carrying out specialist work. Surveying experience an advantage to deal with multiple duties this position entails.—Box 3745, "The Builder."

BUYER'S ASSISTANT Required for Builders' office, with experience in placing orders and sub-contracts.—Write, stating age, experience and salary required, to Y. J. LOVELL (SUSSEX), Ltd., Bishopric, Horsham.

BUYER'S ASSISTANT Required. Knowledge of building trade essential, previous buying experience an advantage. Good salary according to previous experience, capabilities, etc.—Applications, in writing, to FASSNIDGE SON & NORRIS, Ltd., High-street, Uxbridge, Middlesex.

REPRESENTATIVES

SALES REPRESENTATIVE Required by KENDELL'S FLOORING, Ltd., 97 East-street, Epsom. Applicants should have wide knowledge of the building industry, and have a good connection with the Architectural profession in the Greater London area.

SALESMAN Required for London area by Builders' Merchants.—Apply, in writing, stating age and experience, to PRATT (WATFORD) Ltd., 123 Caledonian-road, N.1.

SALES ASSISTANT.—Young man, 25-30 years, Required to fill new vacancy due to expansion. He will assist Sales Manager of established company manufacturing specialist products for the building industry. Previous selling experience and knowledge of building construction essential. New factory under construction at Mitcham for occupation in the autumn to accommodate expansion programme.—Forward application, giving full personal particulars, details of education and experience, stating salary required, to Sales Manager, Box 3819, "The Builder."

FIRST-RATE SALESMEN Required by old-established manufacturer of Chemical Products for the Building Trade. Car owners are offered exclusive territories with payment by salary, expense allowance and bonus.—Write fully, giving details of experience and trade connections, to Box 3748, "The Builder."

Progressive Development Company offers opportunity to one or more assistants on permanent staff, salary, car allowance, expenses and bonus. Must have some knowledge of negotiations, development control and site finding for residential or commercial projects. Activities mainly in the Home Counties based upon our London S.W.1 office. Whilst our preference is for experienced staff, training can be given to suitable applicants. Write stating all details, age, salary range required etc., to:

Wellwood Estates Ltd.,
2, Sloane Gardens, S.W.1

Formerly the Incorporated Clerk of Works Association of Great Britain

FOUNDED 1882

ARCHITECTS SURVEYORS AND ENGINEERS Requiring CLERKS OF WORKS Are invited to apply to THE SECRETARY

Applications for membership are welcomed from qualified Clerks of Works.

The Secretary:
LIVERPOOL HOUSE,
15-17 ELDON STREET,
LONDON · E.C.2

Phone: LONDON WALL 2932

EXCEPTIONAL opportunity for REPRESENTATIVES calling on and having established connections with the Building and allied trades as well as Shipbuilders and their contractors, to carry an additional highly competitive and remunerative line. Representation required in the North of England, the Midlands, London and the Home Counties, South of England and Wales. All replies treated in the strictest confidence. —Representatives interested please write to Box 3625, "The Builder." All letters answered.

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box 947, "The Builder".

BUILDERS' ASSISTANTS

ASSISTANT Required in South Bedfordshire builder's office, with knowledge of estimating, accounts, etc. Able to use typewriter.—State salary to Box 3514, "The Builder."

ASSISTANT Required by leading London firm of Building and Civil Engineering Contractors to help with the preparation of abstracts from Bill of Quantities and with the issue of tender enquiries. The position is permanent and pensionable, and offers interesting experience.—Applications should give full details of age, past employers, and indication of salary required, to Box AR 3505, A.K. ADVERTISING, 212a Shaftesbury-avenue, London, W.C.2

YOUNG MAN, aged 18-23, with knowledge of sales negotiations, building procedure and estate management Required by South London Estate Developers. Commencing salary £8/£10 per week according to experience. Good prospects. Pension scheme.—Write, full details, Box 3757, "The Builder."

ASSISTANT REQUIRED in Contracts Materials Department. Experience in all types of building and civil engineering drawings an advantage. Must be able to take-off materials for ordering purposes from drawings and bills.—Write, stating age, experience, salary required, etc., Estates Manager, M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey. Holiday arrangements honoured.

ASSISTANT for Building Contractors, N.W. London. Suitable for young man with some experience quantities drawing, etc. and studying H.N.C. or L.I.O.B., to assist running contracts and estimating up to about £20,000.—Reply, with full details, to Box 3837, "The Builder."

BUILDERS' ASSISTANT/ESTIMATOR for medium-size firm of Builders and Decorators in S.W. London. Comprehensive knowledge of all trades required.—Box 3820, "The Builder."

AGENTS

SITE AGENT—Contracts up to £40,000 in Herts/Middlesex areas.—Applications in writing, please, giving details of experience, references and salary required, to K. WAGER & CO., Ltd., Rush Green, Hertford.

SENIOR AGENT. First-class man for large London Contract. Remuneration up to £1,800 p.a.—Details to Box 3627, "The Builder."

SENIOR CONTRACTORS' AGENT and GENERAL FOREMEN Required by rapidly expanding firm of National Contractors for new contracts, mainly offices and flats in South East, West and Central London, Birmingham, Berkshire, Manchester and South Coast. Experience of large R.C. Contracts essential. Good opportunities for able men.—Please reply to Box 3691, "The Builder."

BUYER Required for old-established N.E. Hampshire Builder's office. Applicants must be fully experienced in placing detailed orders, keeping accurate progress records, calling forward deliveries and chasing to maintain strict building programmes. Experience in Costing and Estimating an additional advantage. Excellent prospects.—Reply, stating age, past experience and salary required, to Box 3619, "The Builder."

ASSISTANT to Site Agent at private housing estate, Hadley Wood. Able to set out, profile and supervise sub-contractor Bricklayer.—Write, in the first instance, to General Manager, LAWDON PARTNERS, 157 Victoria-street, London, S.W.1.

LAING

AGENTS

are required for senior appointments on large construction contracts in various parts of the country.

Applicants will be required to have a sound experience on a wide variety of contract work. L.I.O.B. or A.M.I.C.E. qualifications preferred. Age 30-40.

The appointments offer progressive and permanent employment with Superannuation Scheme.

Salary will be commensurate with experience and qualifications.

Apply in writing to

Personnel Manager (A.20)
John Laing and Son Limited,
London, N.W.7.

Y. J. LOVELL (LONDON) LTD., have vacancies in the Central London area for the following.

SENIOR AGENTS

SENIOR GENERAL FOREMEN

capable of organizing contracts of £250,000 to £1,000,000.

TOP SALARIES
BONUS & PENSION

Write in confidence, stating age, experience and qualifications, etc.,

"Thorne House,"
4, Endsleigh Gardens,
Euston, W.C.I.

FOREMEN AND SUPERVISORS

GENERAL FOREMAN Required for luxury flats in the Richmond, Surrey area. Permanent position for a keen, energetic man.—Telephone: Mr. Greenwood of PERCY BILTON, Ltd., 54/58 Uxbridge-road, Ealing, W.5. EALing 7777.

GENERAL FOREMEN

HAVE YOU a sound knowledge of the building trade and an appreciation of modern techniques ?

ARE YOU able to pre-plan in detail and work to a costing system ?

CAN YOU get results ?

IF SO we are interested !

Please apply to :

Box No. 3851, "The Builder."

GENERAL FOREMAN Required for W.D. Housing in Camberley. State experience, age and salary required.—Apply, C. NEAL & SON, Ltd., West Horsley, Leatherhead.

YOUNG TRADES FOREMAN Required in Surveyor's Office of Reinforced Concrete Engineers, Euston office. C. and J. preferred. Required for Bonus preparation and measurement. Person studying O.N.C. or H.N.C. Good prospects. Staff position.—Reply, by letter, giving full details, to DIESPEAKER & CO., Ltd., Clifton House, Euston-road, London, N.W.1.

GENERAL FOREMAN Required for school extension in Watford.—'Phone: Sunnyhill 2213.

WANTED: SUPERVISOR to take charge small contracts and jobbing work (East London area). Knowledge of Builders' Quantities; able to drive.—Write in detail, experience, etc., to Box 973, "The Builder."

GENERAL FOREMAN for City alteration and extension. Approximately £30,000.—Age, experience, wages, to A. T. ROWLEY (LONDON) Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. ('Phone: TOT 3611).

OUTSIDE SUPERVISOR Required. Capable of interviewing clients, etc., for alterations, conversions and small works in Windsor area.—Write, stating age, experience and salary required, Box 3604, "The Builder."

EXPERIENCED GENERAL FOREMAN Required for a large municipal flat contract in East Ham. —Apply, in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for contracts in the Surrey area. C. and J. preferred. Age 40-50 years, with pre-war experience. Four figure salary. Regular employment if proved successful.—Box 3638, "The Builder."

CONTRACTS SUPERVISOR Required to take charge of reinforced concrete and hollow tile floor contracts. Permanent position. Bonus and pension scheme.—Write, stating age, full particulars and salary required, to Box 3669, "The Builder."

EXPERIENCED GENERAL FOREMEN Required for numerous contracts in the Gloucester and Forest of Dean areas. Please reply stating age, experience and salary required. Permanent position for suitable applicants. Basic wages £16-£18 per week depending on experience.—Apply, WM. T. NICHOLLS, Ltd., St. Paul's-road, Gloucester.

PLUMBER (Working Foreman) Required to build up plumbing and heating section of medium-sized general contractors who have hitherto relied on sub-letting. Three-bedroom flat available. State age, experience and salary required.—C. NEAL AND SON, Ltd., West Horsley (Leatherhead), Surrey.

BUILDING SUPERVISOR Required with previous experience as Working or General Foreman, holding current driving licence.—Apply, for interview, to Mr. Lott, R. D. HOPE & CO., Ltd., 15 Selsdon-road, South Croydon. CRO 9262.

GENERAL FOREMAN Required for Ministry of Works Contract at Harpenden, Herts. (Post Office). —Reply, stating age, trade, experience, previous employers and salary required, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

GENERAL FOREMAN Required. Must be fully experienced and able to control contracts over £10,000.—Please apply, giving full details of experience, age, salary required, when available, etc., to MESSRS BOYD & MURLEY, Ltd., Building Contractors, 87 London-street, Reading, Berks.

PAINTING CONTRACTORS Require GENERAL FOREMAN for London and South East England. Large number of industrial contracts in hand and to commence. Permanent pensionable appointment. Transport available.—Write, giving age, full particulars of experience and salary required. First-class opportunity for man with practical experience of industrial and structural steelwork painting requirements.—Box 3746, "The Builder."

GENERAL FOREMAN Required for new Public House contract, Wembley area.—Apply, in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

FOREMAN PAINTERS and CHARGE HANDS Required, used to all types of work, with good bonus earning record, and prepared to travel.—TRAYNOR & MILLS CO., Ltd., 26 London-street, Basingstoke.

SITE AGENT
WATES LIMITED

SITE AGENT required for City and West End work. Must have proven record of managing large contracts, comprising multi-storey, reinforced concrete construction both *in situ* and pre-cast.

Pre-planning, Work Study and Cost Control experience essential.

Write in full, stating age, description and value of previous contracts, positions held and salary required, to:

Personnel Manager,
1258/60 London Road, Norbury, S.W.16

SENIOR GENERAL FOREMAN
£1,250 P.A.

Senior General Foreman required by Progressive National Builder. Must be prepared to work anywhere in the British Isles.

Write, giving your age and full experience over the last 10 years, stating salary required, to :

Box No. 3751, "The Builder."

RICHARD COSTAIN LIMITED

have vacancies for

TOP GENERAL FOREMEN

Applications are invited from men who have wide experience in control of large building contracts. Apply in writing giving details of experience to:

Personnel Officer,

111, Westminster Bridge Road, London, S.E.1.

3 GENERAL FOREMEN

Required London Area

Contracts ranging from £10,000–£50,000. Write full details—

E. J. LACY & CO., LIMITED,
Steele Road, N.W.10

JOINERY SHOP FOREMEN

of age 30/45 required for small Joinery Works in North London area, employing a total of about twenty-five operatives. Applicant must have had experience in a similar position, should be an experienced setter out with an interest in organised production and be used to high class Joinery both hard and softwoods.

Commencing salary £850 to £950, Pension Scheme. Write to

Box No. DA 3131,
c/o Whites, 72, Fleet Street, London, E.C.4

Senior General Foreman
Section Foreman
Carpenter Foreman
Gangers

Applications invited from experienced men in the above positions to join the permanent Contract Staff of a C.E. and B. Contractor with an expanding programme of Building Contracts in the Midlands area. A good salary and allowances and prospects for promotion will be offered to suitable applicants. Send full particulars, stating age and experience, to Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton.

MANUFACTURERS of high-class Joinery Require SITE SUPERVISORS, all areas. Only those capable of producing excellent site work economically need apply for opening with scope for advancement. Pension scheme.—Send full details of experience, age and salary expected, to Box 3776, "The Builder."

EAST SUSSEX Builder and Estate Developer Requires WORKING FOREMAN/MANAGER to assist generally in the erection of New Dwellings and General Contract work. Only Tradesmen with some supervisory experience in New Housing need apply. The successful applicant will need to be keen, energetic and completely trustworthy and will, after an initial trial period, receive an interest in the Company.—Write, in first instance, giving full and complete information in confidence, of education and employment to date.—Box 3769, "The Builder."

First class

GENERAL FOREMEN

(Carpenter preferred)

required for Hospital contract West End.

Good salary. Apply,
Richardson, Herbert House,
Slade Green, Erith, Kent.
Telephone Erith 36561.

GENERAL FOREMAN Required. Manchester area initially, but must be willing to travel. Must be fully experienced. Permanent and pensionable post. —Write, full details of experience, age and salary required, to Box 3775, "The Builder."

GENERAL FOREMAN Required for fast expanding established Contractors for Housing sites in London and Home Counties. Excellent prospects.—Write, stating age, experience and salary required, to Box 3773, "The Builder."

SUPERVISOR Required, able to estimate for small works, and to carry out conversions and maintenance work. Permanent job for capable, energetic man.—Apply, SLOGGETTS (CONTRACTORS), Ltd., 209 High-street, Hampton Hill, Middlesex. Teddington Lock 3303.

GENERAL FOREMAN Required for school contract S.W. London area. Good opportunity for conscientious man.—Apply, Box 3815, "The Builder."

WALKING FOREMAN to supervise small contracts for old-established firm of Building Contractors in London. It is essential that the applicant shall have had previous experience of this type of work and is capable of maintaining discipline and economical control of labour.—Apply, in confidence, to the Secretary, Box 3816, "The Builder."

GENERAL FOREMAN Required for private developments in Bucks.—Apply, Box 3813, "The Builder."

GENERAL FOREMAN. Sound, practical, experience, used to working modern techniques and methods. —Written applications, giving full details of experience and salary required, to ALLEN FAIRHEAD & SONS, Ltd., Sydney-road, Enfield, Middlesex.

SITE FOREMAN, car-driver preferred, Required to run housing site/s at Marlow, Bucks, Uxbridge, Staines and Brentford.—Write, giving usual details of experience and salary, to ROGER GREEN CONSTRUCTION, Ltd., Denzilloe-avenue, Hillingdon, Middlesex.

H. FAIRWEATHER & Co., Ltd.

have vacancies for

GENERAL FOREMEN

in the NOTTINGHAM and MANCHESTER AREAS

Applicants must be capable of organising contracts up to £250,000 of the multi-storey type.

Write in confidence stating age, experience, qualifications, etc., to—

Hyde Works, Barlow Road, Broadheath,
Altrincham, Cheshire

SUPERVISOR

Leading firm of Building Contractors have vacancy for a suitable man able to estimate for and deal with small jobbing and maintenance work in the London area. Permanent and pensionable position with good prospects. Applications giving full details of age, experience and salary required to

Box SL.3503, A.K. Advtg., 212a Shaftesbury Ave., London, W.C.2.

THE MITCHELL CONSTRUCTION COMPANY LTD.

require for important Contracts in the

Coventry, Peterborough and London Areas

Senior General Foremen
Assistant General Foremen
Senior Foremen Carpenters
Senior Foremen Bricklayers

Apply to:

Building Manager,
The Mitchell Construction Company Ltd.,
Wharf Works, Peterborough.

GENERAL FOREMAN, fully experienced and cost-conscience. Required by well-established S.E. London contractors, for work in and around the London area.—State age, experience and salary required, to Box 906, "The Builder."

CARPENTERS AND JOINERS

NEW opportunities. Keen, young TRADESMEN Required to train as Setters-out in development of Architectural Aluminium.—Write giving full details of experience to Secretary, UNIVERSAL SHOP-FITTING CO. (LONDON), Ltd., Kangley Bridge-road, S.E.26.

WORKING FOREMAN Carpenters Required for contracts at Hayes, Middlesex and Hertford. Good prospects for suitable applicant.—Apply, in writing, COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

CLERKS

CLERK/ACCOUNTS TYPIST Required. Permanent. —Write, stating age, experience, salary required, Secretary, ALLIANCE ELECTRICAL CO., 2 Henrietta-street, W.C.2.

TURRIFF CONSTRUCTION CORPORATION Ltd.

Requires

SITE CLERK/CASHIERS

Fully experienced Building/Civil Engineering. Long-term prospects with good conditions.

Write: Group Personnel Manager, Budbrooke-road, Warwick.

CASHIERS and TIMEKEEPERS Required by large firm of Public Works Contractors for Contracts in London and Provinces.—Reply, stating age, experience and salary required, to Box 3731, "The Builder."

LADY BOOK-KEEPER for West End builders.—Write, stating age, experience and salary required, to Box 3736, "The Builder."

BURGESS PRODUCTS Require **MALE CLERK** in London office. Experience of filing, telephoning and figures essential. 5-day week and pension.—Write, in first instance, for appointment, stating salary required, to London Area Manager, Ceilings Section, BURGESS PRODUCTS CO., Ltd., 127 Victoria-street, S.W.1.

WAGES CLERK Required by expanding firm of Builders in the Victoria district. Good wages and Luncheon Vouchers supplied.—'Phone: ABBey 6883 for appointment.

EXPERIENCED SITE CLERK Required for large flats contract in Tottenham, near Manor House Tube station. Age 20/30. Salary in accordance with experience and ability.—Apply, with all relevant particulars, stating salary expected, to THOMAS McINERNEY & SONS, Ltd., 27 Clarendon-road, Watford.

YOUNG MAN with clerical experience required. Must be keen and anxious to get on. Will be given opportunity to develop site knowledge. Kensington. Good money to right man.—Box 3800, "The Builder."

BUILDER'S CLERK in N.W. London district for general office duties. Knowledge of costing an advantage.—Write, stating age, experience and salary required, Box 3792, "The Builder."

WAGES CLERK, conversant with Building and Civil Engineering industries Required for head office of large organisation in London, N.W.6. Salary according to age and experience. Excellent pension and life assurance schemes.—Write, full details of age, experience and salary required, to Box 3780, "The Builder."

INVOICE and COSTING CLERK Required. Experienced in standard form of measurement and working-up invoices. Specialist sub-contractors.—Write, age, experience, etc., to Box 3821, "The Builder."

Material Checker and Timekeeper Wages Clerk

Applications invited from experienced men for the above two positions for Contracts in the Midlands area. Good terms and prospects offered to suitable men. Applications to Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton.

SENIOR COST CLERK/BOOK-KEEPER Required by expanding Building Contractors. Excellent opportunity for experienced and intelligent person.—Apply, stating full details of experience and salary required, to STIRTON PARTNERS, Ltd., 871 High-road, London, N.12.

BUILDERS' CLERK Required, experienced in costing and preparation of accounts both daywork and contract, and general builders' office routine. Experience in the trade essential. Croydon office.—Write, stating age, experience and salary required. —Box 3829, "The Builder."

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 914, "The Builder."

COST & ACCOUNTS CLERK Required for interesting work in Flooring Specialists' Office. Good prospects in expanding and progressive company. Non-contributory pension scheme.—Apply, with details of age, experience and salary required, to Box 3523, "The Builder."

KEEN YOUNG BUILDERS' CLERK Required for medium-size office. Experienced in preparation of Final accounts, both day work and contract, costing, ordering, etc. Permanent, progressive situation for keen applicant. Accommodation offered to successful candidate.—Write, stating age, details of experience, salary required, to MESSRS JOHN HALL (PERSHORE), Ltd., 31 Bridge-street, Pershore.

ASSISTANT CLERK (Male) Required for busy maintenance contracts dept. Knowledge of the trade essential. Progressive post. Holiday arrangements respected.—Write stating age, experience and salary required to Secretary, WHYATT (BUILDERS), Ltd., 225 Streatham High-road, S.W.16.

BUILDERS' CLERK Required by large firm in N.W. London. Permanent position for right applicant. Pension scheme.—Write, full details of experience, age, salary required, to Box 3658, "The Builder."

SENIOR WAGES CLERK to take charge small but busy wages department of S.W.1. company. Previous experience of building trade essential: knowledge of Kalamazoo system preferable. Commencing salary according to age and experience plus L.V.s. Pension scheme. No Saturdays.—Please write, stating age, experience and salary required, to Box 3668, "The Builder."

BUILDER'S CLERK Required in Quantity Surveyor's office, Westminster, S.W.1. Five-day week.—Reply, stating age, experience and salary required, to Box 3671, "The Builder."

QUANTITY SURVEYOR (City of London) Requires experienced SECRETARY, SHORTHAND-TYPIST to deal with general duties. Small office. Five-day week. Salary according to experience and capabilities.—Box 3722, "The Builder."

BUILDER'S ACCOUNTANT Required for medium sized Contractor's Office. Good conditions. Permanency. Please state experience and salary required.—R. DURTNELL & SONS, Ltd., Brasted, Westerham, Kent.

CAPABLE ASSISTANT for Director Required, having good typing and clerical ability and knowledge books. Suitable for one interested in permanent position offering excellent prospects and good salary. —Write, L. F. DAVIS (BUILDERS), Ltd., 83 Geffrye-street, E.2.

MISCELLANEOUS

THE BUILDING CENTRE is expanding its information service and Requires three additional INFORMATION OFFICERS. A good working knowledge of building materials and equipment is desirable but not essential.—Write, giving age and experience and salary required, to the Chief Technical Officer, THE BUILDING CENTRE, 26, Store-street, London, W.C.1.

YARD MAN/STOREKEEPER Required for small Builder's yard, London, W.11. Previous experience necessary.—H. CORRY & SONS, Ltd., BAY 6588 for appointment.

STOCK-KEEPER for Builders' Merchants in their Plumbers Brassfoundry section. Good knowledge of all plumbing materials; accuracy and some experience of stock-keeping essential.—'Phone or write, A. GOSLETT & CO., Ltd., 127-131 Charing Cross-road, London, W.C.2. Telephone GER 7890.

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 8/6; additional 6 words, 2/-. Box number, including Forwarding Replies, 2/-.

CHARTERED QUANTITY SURVEYOR, aged 35. Required for junior partner in office in West Africa, preferably with previous overseas experience. Write, giving full particulars, to Box 3735, "The Builder."

MELBOURNE, AUSTRALIA. SENIOR ARCHITECT Required by leading firm handling large-scale university and commercial projects. Salary range £A1,800 to £A2,300. Air passage paid, 3-year contract; accommodation assured.—Box 3606, "The Builder."

RICHARD COSTAIN LIMITED

RESIDENT MANAGER

MIDDLE EAST

Richard Costain Limited require a Resident Manager for their Middle East Company. The person appointed will be required to establish and control a new organisation which will undertake Development Contracts—Housing, Office Buildings, Ancillary Services, Industrial Facilities, etc.

The ability to produce results and control a medium sized organisation within an agreed budget is essential. Candidates must have a mature Civil Engineering or Building background combined with sound experience at management level of operating major overseas contracts, including negotiations with clients. A knowledge of Arabic is desirable.

Age preferred 35-45. Salary £3,000 per annum with £60 per month additional allowances. Free furnished married accommodation and car will be provided. Applications which will be treated in strict confidence should be addressed to:

Personnel Manager,
111, WESTMINSTER BRIDGE ROAD,
LONDON, S.E.1.

AUSTRALIA. ARCHITECT, Senior, with practical experience, Required in Melbourne, to take charge of specification department for major architectural firm on wide variety of building projects. Duties include research and site investigation of latest building techniques. Fares paid and three year service contract. Salary over £A2,000 per annum by arrangement. Ample accommodation available for rent or purchase.—Reply, in writing, stating qualifications, experience, age, size of family and when available, Box 3847, "The Builder."

SYDNEY, AUSTRALIA. Experienced ARCHITECTURAL ASSISTANT Required. Commencing salary £A2,000.—Box 3848, "The Builder."

ARABIAN GULF. QUANTITY SURVEYOR Required by professional firm. Eighteen month tour with preliminary period in London office. Substantial salary with accommodation and car allowance provided. No local income tax. Bachelor preferred age over 25.—Apply stating qualifications and experience to Box 987, "The Builder."

TAKERS-OFF of Intermediate to Final Standard Required by Westminster Quantity Surveyors to work in the London office. Excellent opportunities for proceeding to Branch Offices overseas as resident surveyors as and when vacancies arise.—Apply stating age and qualifications, Box 941, "The Builder."

PROFESSIONAL firm have vacancy in their Jamaican office for qualified QUANTITY SURVEYOR. This is a responsible position covering measuring, pricing and agreeing final accounts. Three-year tour.—Qualifications and experience to Box 3541, "The Builder."

TAKERS-OFF, Australia, Sydney and Melbourne. Experienced TAKERS-OFF Required for three-year contracts, £A1,900, £A2,000, £A2,100, plus considerable overtime at increased rate, bonus on completion of contract. Fares to Australia paid. Perfect working conditions in modern air-conditioned office. Extra holidays. Continuation contract may be obtained.—Box 3568, "The Builder."

SYDNEY, Australia. A vacancy occurs for experienced TAKER-OFF. Commencing salary £A1,900, excluding overtime. Fare paid.—Box 3569, "The Builder."

AUSTRALIAN Consulting Engineering Firm Requires two experienced CIVIL or STRUCTURAL ENGINEERS, four DESIGN DRAUGHTSMEN with steel or R.C. experience, and one SENIOR DRAUGHTSMAN to take charge of Drawing Office. All in Sydney. Contracts and passages arranged. Salary up to £A2,200 per annum.—Box 3570, "The Builder."

SYDNEY, Australia. Experienced TAKER-OFF Required £A1 p.h., 50-hr. week, 1-yr. contract. Fares paid both ways.—Box 3601, "The Builder."

SYDNEY, Australia. Young TAKER-OFF with at least 10 years' experience in a Quantity Surveyor's office Required for 1½ yr. contract. Commencing salary £A2,000. Return fares paid.—Box 3602, "The Builder."

ADELAIDE, AUSTRALIA. Young DRAUGHTSMAN interested in emigrating to Australia and to participate in the interior designing and building of David Jones' new store, are invited to apply, in writing, to London Manager, DAVID JONES, Ltd., 315 Regent-street, London, W.1.

WEST AFRICA Roofing Contractors specialising in Ruberoid waterproofing work Require experienced FOREMAN for Nigeria. Single man preferred. Good driver essential. One year's contract subject to renewal. Age 25 to 40.—Box 3756, "The Builder."

WORKS SUPERVISOR for road construction Required by West African contractor. Excellent opportunity for man aged 25-40 with expanding concern. Tour 18 or 24 months. Part-furnished house, car and clothing allowance and passage out paid. Salary £1,250-£1,500 per annum. Interview London. —Box 3787, "The Builder."

BERNARD SUNLEY & SONS LTD.

require

GENERAL FOREMAN

for NASSAU

Applications are invited from experienced men having control of large contracts and with wide knowledge of reinforced concrete and shuttering. Initial tour of 2 years.

Apply, quoting ref. O.A. giving age and details of experience to:—

25, Berkeley Square, London W.1.

SERVICES OFFERED

Minimum 8s. 6d. (24 words)
Each additional 6 words 2s. Box number, Including Forwarding Replies, 2s.

BILLS OF QUANTITIES, ETC., from plans expertly priced from our build-up of prices over 30 years' experience and success. Site measurement for interim payments, final accounts prepared and settlements of contracts with the Profession.—A. W. CLUFF & PARTNERS, 126 Thorpe-road, E.7. MAR 2026.

BUILDER'S SURVEYOR offers services in preparation of Final Accounts, Working-up, checking accounts, preparing increased costs and dayworks claims undertaken. Rate 8s. 6d. per hour.—Box 3738, "The Builder."

SURVEYS undertaken by qualified Land Surveyor. Any type of area, built-up or open country, large or small in Midlands area. Reasonable charges.—'Phone: Wolverhampton 22706.

CONTRACTOR'S ESTIMATES, Building and Civil Engineering; competitive pricing at current rates. Alterations our speciality.—AMALGAMATED BUILDING SERVICES, 70 Bridge-road, Chessington. 'Phone: Epsom 4255.

QUANTITY SURVEYOR, living in Worthing, offers his services within the profession, locally for preference.—Apply, Box 3545, "The Builder."

BUILDERS' ESTIMATES accurately prepared from Bills of Quantities, plans and specifications. Prompt, efficient service.—VICTOR H. FERN, 21 Tettenhall-road, Wolverhampton. Telephone: Wolverhampton 24406-7.

QUALIFIED QUANTITY SURVEYORS with own Central London office offer assistance to the profession.—Tel.: CHAncery 4246-7.

THE SITE SURVEY COMPANY

BLACKHEATH, S.E.3. Tel.: LEE Green 7444-5

Fully equipped to undertake urgent surveys in any part of the country and abroad. Specialists in ½" scale detailed surveys for extensive city development areas.

SPECIALISTS IN ESTIMATING

Builders' (Professional) Services

21, Baker Street, London, W.1.
HUNter 4213

BES

Established in 1921, B.E.S. provides an efficiently organized national service to contractors in preparing and/or pricing quantities, site measuring, etc., and handles approximately £20,000,000 of estimating annually. A permanent staff of experienced surveyors always available. Phone or write for brochure, or send Plans or Quantities to

The Builders' Estimating Service Ltd.

2, WESTMINSTER BANK CHAMBERS, SHEPHERDS BUSH, W.12. Phone SHE 7975

There are also B.E.S. offices in Manchester, Birmingham and Worcester.

BUILDER'S ESTIMATES promptly prepared from Bills of Quantities, Plans, Specifications and Site Measurements.—Cherrywood 2909. KNIGHT, 53 Churston-drive, Morden, Surrey.

QUALIFIED QUANTITY SURVEYOR can accept commissions from the profession for the preparation of Bills of Quantities, Estimates, Site Measuring, and Final Accounts.—Box 3730, "The Builder."

WORKING-UP. Chartered Quantity Surveyor, S.W.1, offers temporary assistance to the profession with neat experienced staff.—Box 929, "The Builder."

BUILDER'S ESTIMATES accurately prepared to your requirements from Drawings or Quantities.—For satisfactory results with reduced overheads, consult THE BUILDERS' ESTIMATOR, 73 New Bedford-road, Luton, Beds. 'Phone: Luton 8077.

ESTIMATING SERVICE for Builders, South London area. Bills of quantities or drawings. Reliable, speedy and personal service. Moderate fees.—Box 3617, "The Builder."

MEASURING SURVEYORS. Qualified and experienced in I.C.E. and R.I.B.A. Contracts offer services. Distance and location no object. Agents: Midland Office Services, Market-square, Stone, Staffs. Tel.: 682.

BURY DESIGN Ltd. offers team fully experienced in Civil, Structural and Architectural work. Available to undertake Design, Working Drawings, Specifications, etc., Immediately.—Box 3487, "The Builder."

ARCHITECT is willing to take on work from overworked, under-staffed, professional colleague. Would assume full responsibility, design, working drawings, etc., act as consultant and supervise.—Box 3764, "The Builder."

EXPERIENCED TAKER-OFF, A.R.I.C.S., offers services to profession on part-time basis.—Box 3797, "The Builder."

EXPERIENCED WORKER-UP Requires part-time work in London area. Rate 8s. 6d. per hour.—Box 3799, "The Builder."

QUANTITY SURVEYING PRINCIPALS. Will Estate Duty be a burden to your dependants? An A.R.I.C.S. (some capital) who is seeking a partnership in an established practice in London may be able to help.—Box 3855, "The Builder."

SITUATIONS WANTED, ETC.

Minimum charge 3s. (24 words)
Each additional 6 words, 1s. Box number, Including Forwarding Replies, 1s. 3d.

PROVIDENT INSTITUTION OF BUILDERS FOREMAN and CLERKS OF WORKS
(established 1842)
CARPENTERS HALL, 28, AUSTIN FRIARS, LONDON, E.C.2.
(By kind permission of the Worshipful Company of Carpenters.)
CONTRACT MANAGERS, CLERKS OF WORKS, AGENTS and STAFF FOREMEN are invited to apply for membership of this Institution, which has for over a century granted pensions to members and their widows and so assist to maintain the status and promote the interests of supervisory staff in the Industry. Architects, Builders and Civil Engineers requiring efficient staff as above are requested to contact the
General Secretary,
J. W. TILLER, L.I.O.B.,
11½, Marlborough Hill, St. John's Wood, London, N.W.8.
Phone: PRImrose 7336.

BRITISH-TRAINED ARCHITECT, with 20-years' experience in the U.S.A., seeks association with developers on "all-in" basis as consultant on design, site planning, landscape, etc.—Box 3765, "The Builder."

QUANTITY SURVEYOR, A.I.Q.S., A.Bldg.S.I., 28, seeks permanent position in Midlands. 10 years with national contractors on building and civil engineering projects to £3 million including multi-storey. Negotiating, site organisation, final accounts. Professional, contracting or industrial firm. Present salary £1,400.—Box 3789, "The Builder."

QUANTITY SURVEYOR (22), Intermediate R.I.C.S., total 5 years' college training and working-up experience, wishes to commence Taking-off in London or Middlesex office.—Box 3803, "The Builder."

BUILDERS' SURVEYOR, 21, seeks fresh employer in September. Knowledge of Small Works, Estimates, A/Cs, Supervision, etc. Sits HNC, LIOB 1961. As ASSISTANT to Contracts Manager, Berks or London area.—Box 3752, "The Builder."

YOUNG MAN, aged 20 years, not eligible for national service; 4 years in quantity surveyors' office but desires more mobile career and wishes to train as measuring surveyor. Intelligent and anxious to make good. Would prefer N.W. London, but careful consideration to all replies. Salary secondary to opportunity.—Box 3742, "The Builder."

SURVEYOR, 32, experienced large building and pipework contracts, requires responsible and permanent position. Professional and Contractors' office background. Car owner.—Box 3843, "The Builder."

BUILDERS' SURVEYOR, aged 30, some experience of site supervision and management, seeks responsible position with progressive contractors able to offer management opportunities.—Box 3832, "The Builder."

ASSISTANT SURVEYOR, 47, desires position with London Surveyor, builder, October. Only firm offering scope future financial interest. Five figure capital. Assist working-up, taking-off, measuring.—Box 3522, "The Builder."

WORK REQUIRED. Abstracting, billing, final accounts, etc. Reasonable and qualified.—Box 3842, "The Builder."

TAKER-OFF (29) Requires permanent Senior Position in London professional office.—Box 3798, "The Builder."

JUNIOR WORKER-UP seeks position with London Chartered Quantity Surveyors. Salary in region of £425.—Box 3854, "The Builder."

RESPONSIBLE POSITION Required by ESTIMATOR/SURVEYOR, with medium-sized contractor. Used to working with minimum supervision. Capable of handling new building work up to £30,000. Resident N.E. Hampshire. Car driver.—Box 3709, "The Builder."

WORKS MANAGER/SUPERVISOR ESTIMATOR seeks post. Considerable and varied experience all branches. Jobbing, maintenance, alterations, small works, office routine, initial inquiry to final account.—Box 3839, "The Builder."

CONTRACTS MANAGER (Quantity Surveyor trained), 44, seeks position with medium-sized contractors in London or Southern Counties. Expert experience of cost control and modern planning techniques. Consistent record of beating targets at low cost. Ability and desire to increase production and turnover.—Box 3841, "The Builder."

MANAGER/SURVEYOR. 35 years' experience Building industry. Competent Estimator all classes of work, with good technical ability. Able to control any medium-sized business. First-class character and integrity. Fellow Institute of Builders. Own car.—Box 3712, "The Builder."

MANAGER over period of 20 years in three firms in London area, and still employed. Services and integrity still not appreciated. Is anybody interested in offering me a fair chance in this country. Businesses are offered for sale because of ill health of owner. Maybe I can help.—Box 3795, "The Builder."

COST SUPERVISOR/BUYER. Sound knowledge of all materials and sub-contractors' accounts, assisting Estimators, drawings, B.O.Q.'s, etc., and all office routine. London area preferred.—Box 3739, "The Builder."

BUILDING MANAGER/CONTRACTS MANAGER, age 48, good contacts, life experience, organiser, would be interested in expanding business.—Box 3852, "The Builder."

C. OF W. Retiring G.F. seeks job as C. of W. 30 years' experience as G.F. in all types of contracts.—S. WRIGHT, 3 Gordon-road, London, N.3.

BUYER seeks position with progressive company. Fully experienced most aspects of industry.—Box 3833, "The Builder."

BUYER/ESTIMATORS ASSISTANT. Experienced all materials and sub-contractors. Enquiries from B.O.Q.'s and drawings, costing, accounts and transport control, etc. London or Home Counties.—Box 3740, "The Builder."

NIGERIAN, 25 years, H.N.C. finalist, probationer Institute of Builders, with 5 years' experience. Requires post with Builder or Quantity Surveyor.—Box 3838, "The Builder."

YOUNG MAN (28), City and Guild Joiner apprentice, H.N.C. At present estimating Woodwork, steel frames and light engineering for telephone exchanges, desires return to Building trade. 18 months' Q.S. office before R.A.F. service. Midlands preferred. Driving licence.—Box 3766, "The Builder."

AGENT/GENERAL FOREMAN (56) life experience. Full control. Free in August-September. London area.—Box 3737, "The Builder."

AGENT/GENERAL FOREMAN, C. and J., age 50. Life experience, conversant all trades, contract building, housing. Full control. N. London or surrounding.—Box 3802, "The Builder."

SENIOR GENERAL FOREMAN, aged 40 years, seeks position on contracts to £200,000. C. and J. Experienced all R/C, steel frame, etc. Good character, car owner. London and South preferred.—Box 3801, "The Builder."

BUILDING SUPERINTENDENT, 47, C. and J. in established post, desires responsible position outside London. Site and office experience with contractors, local authority, Government department. Familiar with all aspects of building. Enthusiastic, trustworthy, good personality, driver.—Box 3858, "The Builder."

SUPERVISOR/GENERAL FOREMAN, 35 years' experience, trade C. and J., medium-sized contracts, new, conversion, maintenance, R/C and jobbing works, control all trades. Good organiser. Age 55 years. Free now. Further particulars at interview. Area London North, East, West.—Box 3840, "The Builder."

DECORATING FOREMAN Requires situation. Present firm 12 years, closing end June. Able to measure, drive, etc.—WILLIAMS, 98 Hawksley-road, London, N.16.

WORKING FOREMAN (Bricklayer Foreman). Building contractor/estate developer. Closing down production side of Development, wishes to place his most valued foreman in a suitable position. A well-recommended, man having full share of initiative, trustworthy, production and profit conscious, used complete control, promotes good relations clients and officials, etc. Within reasonable travel of Sutton/Surrey.—A. REED & CO., Ltd., Sandown House, Sandown Park, Tunbridge Wells 23773.

CITY CALCULATIONS LTD.

SPECIALISTS IN COMPUTATIONS

for

QUANTITY SURVEYORS and CONTRACTORS

Dimensions Squared • Abstracts Cast and Reduced
Bills Extended and Cast • Increase Costs Claims Checked

22, LITTLE RUSSELL ST., W.C.1 CHAncery 3171

CONFIDENTIAL SERVICE QUICKLY EXECUTED

EX-BUILDER seeks supervisory position. Conversant with all trades, life experience. Essex area preferred.—Box 3588, "The Builder."

FOREMAN DECORATOR/COLOURMAN. Fully experienced all trades. Coastal, country town.—Mr. G. T. GAUNT, Snr., 14 Gloucester-way, London, E.C.1.

SUPERVISOR or **FOREMAN** of Painters and Decorators. Disengaged. 30 years' practical experience industrial and maintenance, measuring, estimating, organising. Good knowledge general repairs. Refs.—Box 3795, "The Builder."

GENERAL FOREMAN. C. and J. Age 53. New, conversions, medium-size contracts. Good refs.——AUSTIN, 35a Bonnington-square, S.W.8.

GENERAL FOREMAN/SUPERVISOR desires change with small or medium size firm of good repute, with maintenance contracts or alterations. Driver, age 51. C. and J., Surrey, London, South.—Box 3788, "The Builder."

GENERAL FOREMAN (C. and J.) now in charge of £15,000 contract (conversion) desires a Progessive Post in this field. Experience of all trades and h/wood. Knowledge of Dumpy level. Could be available July 1.—Box 3793, "The Builder."

GENERAL FOREMAN (Certified). Basic trade C. and J. 18 years' experience in varied contracts up to £250,000. Sound practical and technical knowledge in levelling-administrative duties. Quantity Planning and Organising to programme. London or near.—1 Warsill-street, Battersea, S.W.11. MAC 2862.

CARPENTER & JOINER, age 32, City and Guilds, A.B.I.C.C. Fully experienced Building and Civil Engineering. Would like position where can be trained as Foreman, Clerk of Works, or similar position. Willing to travel.—Box 3729, "The Builder."

BUSINESSES

A BARGAIN, £25 complete, Brand new **Ready-made** Company Registrations. Building; investment; property dealing; development; haulage, and all other trades available now. (Specially prepared for each trade.)—Write, 'phone or call, BUSINESS ECONOMY COMPANY REGISTRATIONS, Ltd., Dept. T/2. (For English Registrations: 156 Strand, London, W.C.2. TEM 8377/2294.) (For Scottish Registrations: 19 Walker-street, Edinburgh, 2. CAL 1167/9.) Read "Advantages of Trading as a Limited Company" (3s. post free). Limited Company may save you tax. We also have 7-day Company Registration Service. Particulars on application.

OLD-ESTABLISHED BUILDERS & DECORATORS Business for disposal (or possible amalgamation). West London area. S. & P. at Valuation. Good accommodation. Average turnover about £60,000.—Box 3743, "The Builder."

FREEHOLD CONCRETE POST BUSINESS, near Croydon. 20,000 sq. ft. Cheap for quick sale.—Apply, S. M. DANCY & CO., 8a Whitehorse-road, Croydon. THO 5405.

WELL-ESTABLISHED Builders' Business for sale on borders of Surrey and Hampshire. Turnover £75,000. Good opportunity for live man. Partnership might be entertained.—Box 3754, "The Builder."

A LARGE PUBLIC PROPERTY COMPANY
is
INTERESTED IN ACQUIRING
the
SHARE CAPITAL OF PRIVATE COMPANIES
with
SUBSTANTIAL PROPERTY HOLDINGS REGARDLESS OF BOOK VALUES.
Details in confidence to:
Managing Director,
Box No. 3783, "The Builder."

FLOORING CONTRACTORS closing Southern Depot are prepared to negotiate the sale of order book and goodwill with or without office and London storage depot.—Box 3826, "The Builder."

WANTED. SMALL BUILDER'S BUSINESS as going concern, in Canterbury or Thanet area.—Details to HERBERT, White House, Perry-street, Chislehurst, Kent.

LONDON FLOORING CONTRACTORS wish to purchase goodwill of similar business having an order book of a value of £20,000 or more.—Box 3827, "The Builder."

PUBLIC COMPANY Require well-managed going-concern showing average 10 year profits of approximately £60-£70,000, but minimum £50,000, with assets around £300,000. Engaged in building or allied trades.—Please reply to Box 3762, "The Builder."

OLD-ESTABLISHED medium sized Building Contractors. Hants/Surrey/Sussex border. Freehold workshops and offices. Large number of freehold building plots in high class residential area with planning permission. Price: £108,000.—Box 3831, "The Builder."

By Direction of Edward Mousley, Esq.

HAYLING ISLAND, HANTS.

At South-West End, close to sea fronts, yachting and boating basins, station, shops and the famous Golf Course.

Toll-free Access to Island

WITH PLANNING PERMISSION FOR 124 PLOTS

(and further applications pending)

EXCELLENTLY SITUATED

FREEHOLD BUILDING LAND

in convenient parcels, all easily accessible and including a long frontage to LANGSTONE HARBOUR. Main Services at hand.

ABOUT 31 ACRES

including WEST HARBOUR ESTATE (with foreshore rights to Langstone Harbour), Saltmarsh, Dances Way and The Salterns Estates.

FOR SALE BY AUCTION IN CONVENIENT LOTS, AT ST. FAITH'S CHURCH HALL, HAVANT, on THURS., 7th JULY, 1960, at 2.30 p.m. *(unless previously sold)*

Solicitors: MESSRS. THEODORE GODDARD & CO., 5, New Court, Lincoln's Inn, W.C.2

Particulars and Plans from the Auctioneers:

HAMPTON & SONS,

6, ARLINGTON STREET, St. James's, S.W.1 (Tel: HYD. 8222)

VERYARD & YATES

Specialist Auctioneers to the Building Trade announce the next

AUCTION SALE OF BUILDING MATERIAL & PLANT

will be held at 1 o'clock on

June 29th at Siward Road Bromley, Kent

inc.

Kango hammers, petrol driven centrifugal pumps, RSJs, tubular scaff. and fittings, brushes, paint, domestic boilers, ironmongery, hoist, trestles, etc.

Catalogues on application to Auctioneers' Offices:

2 & 135 High St. Bromley, Kent.
RAV. 8731 and 4175

ENTRIES INVITED FOR FOLLOWING SALE ON JULY 27th
LISTS CLOSE JULY 15th

SALES BY AUCTION

Without reserve
To clear the site due to compulsory purchase by the L.C.C.

2 ROCKMOUNT ROAD,
WOOLWICH, S.E.18
(Near Wickham Lane Corner)

VERYARD & YATES
will sell by public auction at 12 o'clock

THURSDAY, 7th JULY, 1960
A useful stock of

WOODWORKING MACHINERY
AND BUILDING MATERIAL

Including: Ransome Rise & Fall Saw Bench, Tennon Machine, Thicknesser, Sagar Spindle Moulder, Sagar Chain Mortiser, Band Saw, Electric Motors, Trestles, Ladders, Steel Scaffolding & Putlogs, Scaffold Boards, Office Equipment, etc.

View day prior and morning of Sale.

Catalogues from Auctioneers' Offices:
2 & 135 High-street, Bromley, Kent. Telephones: RAVensbourne 8731 and 4175.

LAND, PREMISES, ETC.

BACK Land Required with good access suitable for BUILDERS' YARD and STORE, S.E. or S.W. district.—Box 3603, "The Builder."

MUCK SHOOTS in Mill Hill and Southgate, London.—For details 'phone Bowes Park 2402.

N. LONDON. For redevelopment: 4 freeholds, 150 ft. frontage, site area 1½ acres. Buses pass site. Two railway stations within 10 minutes' walk. Vacant possession.—Box 3741, "The Builder."

BUILDING LAND, with 250 ft. road frontage, for Bungalows near Dover. Price £3,750.—Box 3770, "The Builder."

FOUR ACRES of building land at Dymchurch. Offers over £1,500 per acre. Permission for bungalows. 3 acres of building land nr. Eastry Village, Canterbury, bungalows. Main drainage, for quick sale £6,750.—Box 3771, "The Builder."

BUILDERS and Contractors Require YARD, STORES and WORKSHOP in South London up to 10,000 sq. ft.—Box 978, "The Builder."

WIMBLEDON. Exceptionally attractive Open Site for high-class luxury flats. Freehold available on basis of £1,750 per flat site.—Box 3782, "The Builder."

LARGE DEVELOPMENT COMPANY Requires Building Land. Would employ builder owning land to develop same. Areas Bristol (70 miles circle) or outer London.—Write, Box 3810, "The Builder."

ANGLESEY, N. Wales.
On A5 road (¼ mile Menai Straits)
with extensive views of Snowdonia

For Sale

Attractive 11-acre Building Site, Development permission already granted. All modern services. Apply

BOB PARRY & CO. LTD.
Caernarvon, N. Wales
(Tel: 3286/7)

SITEFINDERS LIMITED
specialise exclusively in building land
SITEFINDERS LTD., Land Agents,
16, Berkeley Street, Mayfair, London, W.1.
Tel. MAYfair 5060

FOR SALE BY TENDER

BUCKS COUNTY COUNCIL
COUNTY PLANNING COMMITTEE
ASTON CLINTON PARK, ASTON CLINTON

FOR SALE, approximately 88 yards of stone balustrading, partly standing. Particulars and forms of tender may be obtained from the County Land Agent, The Old House, Walton-street, Aylesbury, Bucks.

R. E. MILLARD,
Clerk of the County Council.
County Hall, Aylesbury.

CIRCULARS

A box number is a service designed to help the advertiser. It is NOT a medium for circularising. Circulars addressed to a box number will not under any circumstances be forwarded

ACCOUNTING & COSTING SYSTEMS

for small and medium sized BUILDERS

★

5/- Post Free

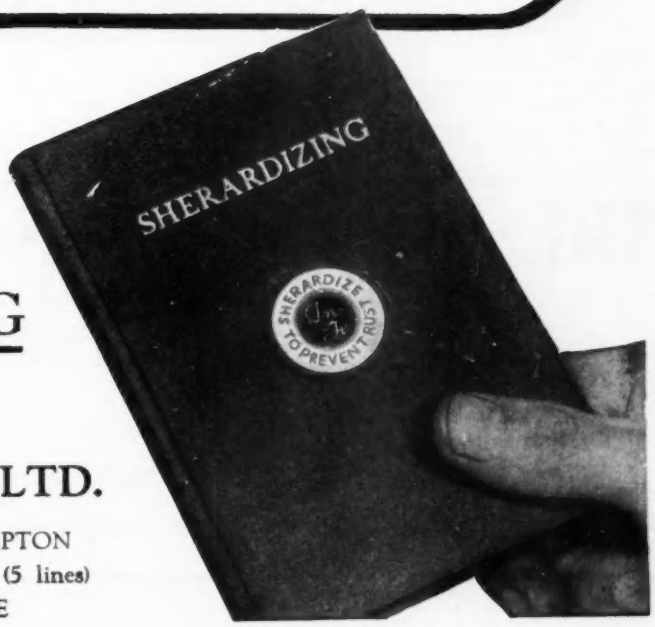
Prepared by the N.F.B.T.E.

Published by:
THE BUILDER
4 Catherine Street, Aldwych, W.C.2
TEMPLE BAR 6251 (6 lines)

YOURS *for the Asking*

LEARN HOW TO:—
SPECIFY,
TEST,
USE,

SHERARDIZING



ZINC ALLOY RUST-PROOFING CO., LTD.

SHAKESPEARE STREET, WOLVERHAMPTON
TELEPHONE: WOLVERHAMPTON 27531 (5 lines)
ALSO AT LONDON & ROCHDALE

FRANK BATTY & SMITH LTD

BUILDING & CIVIL ENGINEERING CONTRACTORS

LONDON, W.2 PAD 5148, 3088-9 | SOUTH WALES CARDIFF 22361/2 | ISLE OF WIGHT RYDE 3322/3

A selection of titles from our comprehensive stock of books for the architectural profession, building and allied trades.

THE BOOK SHOP

The Builder House, Catherine Street, Aldwych, W.C.2. Monday to Friday, 9 a.m. to 5 p.m. Temple Bar 6251.

FOUNDATIONS

Design and Construction of Engineering Foundations *F. D. C. Henry*	3	3	0
Foundations for Houses and Other Small Structures *W. H. Elgar*		12	6
Piling for Foundations *R. R. Minikin*		18	0
Foundation Engineering *Rolt Hammond*	1	1	0
Practical Problems in Soil Mechanics *H. R. Reynolds and P. Protopadakis*	1	1	0
Practical Soil Stabilization for Engineers and Contractors *W. P. Robinson*		7	6
An Introduction to Soil Mechanics *W. L. Lowe-Brown*		6	0
Mechanics of Engineering Soils *P. L. Capper and Cassie, W. Fisher*	1	10	0
Structural Foundations *R. R. Minikin*	1	5	0

FURNITURE

Practical Design for Built-in Furniture *A. R. Brown*		18	0
Modern Furniture Veneering *E. W. Hobbs*		17	6
Your Light Furniture *J. P. McCrum*		9	6

MATHEMATICS AND GEOMETRY

Building Geometry *Noel L. Reece*		10	6
Descriptive Geometry for Architects and Builders *L. A. Lee and R. F. Reekie*		9	0
Geometry *G. A. Hanby*			
First Year Volume		5	0
Second Year Volume		6	0
Third Year Volume		7	6
Building Mathematics *W. Morgan and J. R. Pickering* First Year Course, 8/- Second Year Course 6/6 and Third Year Course		6	6
Mathematics for Students of Building *Drury and Haslam* Vol. I 7/-; Vol. II		8	0
Practical Geometry for Junior Builders *L. A. Lee*		7	0
National Certificate Mathematics *P. Abbott* Vol. I 8/6; Vol. II & Vol. III		9	6
Preparatory Geometry *C. H. Barr*		3	6
Mathematics for Technical Students (Senior Course) *S. N. Forrest*		10	0
Elementary Calculus and Allied Geometry *J. Harvey*		12	6
Building Mathematics *Elsick and Hatton* Vol. I 8/-; Vol. II 6/-; Vol. III		6	6

PLANT

Building and Civil Engineering Plant *Spence Geddes*	1	10	0
Four Cutter Practice *A. H. Haycock*		17	6
Portable Power Tools and Equipment *G. Thornton Jones*		15	0
Woodworking Machinery, Theory and Practice *R. H. Hordern*		15	0
Cutting Tools for Engineers *A. H. Sandy*		5	0
Circular Saw *Haines, Adams, Miller, Thompson and Tassel*	1	1	0
Shop Tools: Care and Repair *De Witt Hunt*	1	12	0
Portable Woodworking Power Tools *Haines, Adams, Miller, Thompson and Tassel*	1	1	0
Band Saw and Jig Saw *Haines, Adams, Miller, Thompson and Tassel*	1	1	0
Hand Tools: Their Use and Operation *Wagener and Arthur*		19	0
Wood Turning Lathe *Haines, Adams, Miller, Thompson and Tassel*	1	1	0

STEELWORK

Steelwork in Building *W. Basil Scott*	1	5	0
Structural Steelwork for Building and Architectural Students *T. J. Reynolds and L. E. Kent*		18	0
Structural Steelwork for Buildings *H. P. Smith*		7	6
Engineering Stuctural Failures *R. Hammond*	1	5	0
The Structure Steel *Edwin Gregory*		18	0

TIMBER

Building Timbers *E. H. B. Boulton, M.C., M.A. and B. Alwyn Jay, M.A., F.L.S.*		7	6
Church Timberwork: Damage and Repair		2	6
Timber Drying and the Behaviour of Seasoned Timber in Use *R. G. Bateson*		15	0
Timber Ready Reckoner, "Prince"		7	6
Timber Trade Practice *Mallison and R. Grugeon*	1	5	0
Modern Mechanical Saw Practice *J. R. Foyster*		18	0
Timber, Its Properties, Pests and Preservation *Prof. F. Y. Henderson*		10	6
Dry Rot and Woodworm Prevention *J. Dallas Cope*		2	6
Woodwork *W. J. West*		6	0
Woodwork *W. L. Showell*		9	6
Sizes of Timbers for Floors and Roofs *R. Y. Broughton*		3	6
Zebra Code	3	3	0
Timber Standard Ready Reckoner		3	6

POSTAGE 9d. ON ALL BOOKS VALUE 5/- · 1/6d. ON 10/- AND ABOVE

B.K.4

THE BUILDER SUBSCRIPTION FORM

This form can be handed to your local newsagent or posted direct to:

THE BUILDER LIMITED, CATHERINE ST., W.C.2

Name .....

Address .....

.....

Profession or Trade .....

Please supply a copy of THE BUILDER.

SUBSCRIPTION ACCOUNTS ARE PAYABLE IN ADVANCE 12 months - £4-0-0 ☐ 6 months - £2-0-0 ☐

Please mark page number(s), clearly and add your name, address and profession to ensure that your request can be forwarded without delay to the advertiser(s).

BLOCK LETTERS PLEASE

Readers' Service Form

Reader's Name .....

Address .....

.....

Profession or Trade .....

TECHNICAL REVIEW PAGE—1209. Place a tick against the number of the paragraph which interests you 1 2 3 4 5 6

CUT

Advertisers' Index

ABCD (Raynes Park), Ld. 1216
Abelson & Co. (Eng.), Ld. 117
Abix (Metal Industries), Ld. 105
Ableson, L. & D., Ld. 44
A.C.E. Machinery, Ld. 16
Acworth Plant Hire 119
Adamite Co., Ld. 63
Airscrew Co. & Jicwood, Ld. 41
Albico Precision Eng., Ld. 116
Allied Brick & Tile Works, Ld. 112
Armitage, G., & Sons, Ld. 14
Armstrong Cork Co., Ld. 31
Asbestos Cement Roofings (London), Ld. 103
Associated Building Products, Ld. 85
Austins of East Ham, Ld. 60

Bainbridge Bros. (Engs.), Ld. 14
Barry, Ostlere & Shepherd, Ld. 35
Batty, F., & Smith, Ld. 138
Bilston Foundries, Ld. 65
B.I.P. Reinforced Products, Ld. 19
Blaw Knox, Ld. 88
Boulton & Paul, Ld. 49
Boyle, R., & Son 110
Braby, F. & Co., Ld. *Cover*
Braithwaite & Co. (Engs.), Ld. 33
Brand, R. A., & Co., Ld. 58
British Aluminium Co., Ld 17
British Bitumen Emulsions, Ld. 104-105-106
British Cork Mills, Ld. 105
British Hoist & Crane Co., Ld. 32
B.I.E.T. 122
British Plimber, Ld. 30
British Resin Products, Ld. 42
Broughton Moor Green Slate Quarries, Ld. 1212
Brown, N. C., Ld. 118
B.R.S. (Contracts) Ld. 48
Brunnings (Holborn), Ld. 118
Builders' Est. Service, Ld. 135
Builders' (Professional) Services 135
Byrd, A. A., & Co., Ld. 76

Contracts 87
C. & S. Construction Co., Ld. 109
Carter (Brockley), Ld. 136
Carter Industrials, Ld. 104
Carter Tiles, Ld. 38
Caswell Cranes & Erection, Ld. 120
Cayless Bros., Ld. 117
Central Flooring Co. 121
Chalmer, E., Ld. 101
Charringtons 20
Chimneys, Ld. 104
City Calculations, Ld. 135
City Veneering Mills, Ld. 50
Cloke, Geo. E., Ld. 105
Collins & White (Engs.), Ld. 103
Compentrad, Ld. 53
Concrete, Ld. 72
Contractors' Services, Ld. 120
Cooke, J., & Son (Huddersfield), Ld. 108
Cope & Co., Ld. 110
Costello, T., Ld. 61
Cox, H., & Sons, Ld. 120
Cox, P., & Partners, Ld. 109
Cradle-Scaff, Ld. 105-108-110
Crockatt, W., & Sons, Ld. 55
Crogzon & Co., Ld. 105
Cuprinol, Ld. 102

Dalton, Ballard & Co., Ld. 119
Damp-proofing, Ld. 110
Danaura, Ld. 103
Dandridge, A. F., Ld. 119
Dawson, W. A., Ld. 44
De Gay Flooring, Ld. 106
Delta (Plant), Ld. 4
Dickens, S. B., Ld. 69
Doe, F., & Sons, Ld. 118-119
Drynamels, Ld. 40
Dunkley, G. 107
Dunlop Rubber Co., Ld. 47

Electrolux, Ld. 85
Electrical Development Ass. 25
Elgood, E. J., Ld. 106-107
Ellis School of Building 122
Elstree Engineering Services, Ld. 74
Essex Steel Scaffolding Co., Ld. 1216

Evans Plant, Ld. 119
Evode, Ld. 5
Excel Asphalte Co., Ld. 103
Expandite, Ld. 103-105-108-122

Falkus Bros., Ld. 66
Farr, Edward, Ld. 109
Farrar, E., Ld. 107
Fawcett Construction Co., Ld. 112
FEB (G.B.), Ld. 7-9
Federated Foundries 37
Federation of Master Builders 1216
Felts & Damp Courses, Ld. 116
Ferodo, Ld. 12
Fitton, S. & J. (Tarpaulins), Ld. 110
Flexpipe, Ld. 75
Fluid Glass Products, Ld. 105
Frankipile 18
Furniss & Co. 114
Furse, W. J., & Co., Ld. 109

Garmack & Co., Ld. 121
G.C. Construction Flooring Co., Ld. 106
General Electric Co., Ld. 23
Gerrard, J., & Sons, Ld. 67
Gibson, A. L., & Co., Ld. 59
GKN Reinforcements, Ld. 83
Glow-Worm Boilers, Ld. 113
Gordon, J. R., & Co., Ld. 6
Greenwich Pump & Plant Co., Ld. 119-121
Greenwood's & Airvac Ventilating Co., Ld. 15
Grey, C. C. 105
Gush & Dent, Ld. 97
Gyproc Products, Ld. 70
Gypsum Mines, Ld. 56

Hallam, Vic, Ld. 53
Hammond & Champness, Ld. *Inside Back Cover*
Hampton & Sons 136
Harris & Bailey, Ld. 117
Harvey, G. A., & Co. (London), Ld. 13
Haskins 44
Henderson, P. C., Ld. 1214
Heywood-Helliwell, Ld. 51
High Duty Alloys, Ld. 27
Hillman Electric Motors, Ld. 115
Hills, F., & Sons, Ld. 78
Hills Plant, Ld. 73
Hirschhorn, E., & Co., Ld. 104
Holt, B., Ld. 105
Hook's Joinery Works, Ld. 121
Hope, H., & Sons, Ld. 68
Housden, G. & H. 122
Howard & Co. 1216
Hughes, E. V., & Partners 97
Hy-Rib Division, Truscon, Ld. 108

Inst. CoW 131
ICS 122
Incinerator Co., Ld. 114
Ivanhoe Fencing Co. 105

James Joinery 121
Johnson, C. H. (Mach.), Co., Ld. 60

Kenyon, W., & Sons (MetaMica), Ld. 43
Kerner-Greenwood & Co., Ld. 62
Key Engineering Co., Ld. 10-11
Kittridge Flooring, Ld. 122

Laing, J., & Son, Ld. 98
Latham, J., Ld. 45-94
Leach, Hubert C., Ld. 118
Lead Development Association 55
Leander Products, Ld. 105
Lesser, J. E., & Sons, Ld. 86
Lillington, G., & Co., Ld. 8-90-110
Liner Con. Mach. Co., Ld. 28-49-61
Lion Building Society 114
Liverpool Borax Co., Ld. 52
Lockwood, R. W. 121
London Association Builders' F. and C.O.W. 123
London Flooring Co. 106
Luxfer, Ld. 107

Macnamara, J., & Co., Ld. 117-119-120
Magart, Ld. 105
Magnet Joinery, Ld. 39
Manger, J., & Sons, Ld. 53
Marley Con., Ld. 97
Marley Tile Co. 80
Martyn, B., Ld. 106

Masonite, Ld. 54
Metal Sections, Ld. 26
Metropolitan Concrete Works, Ld. 86
Metway 59
Micanite & Insulators Co., Ld. 58
Mills Scaffold Co., Ld. *Back Cover*
Milne, A. (Plastering), Ld. 81
Mint, Birmingham, The, Ld. 48
Minton Hollins, Ld. 110
Moore's Plant, Ld. 120-121
Mullen & Lumsden, Ld. 64
Multispray, Ld. 121

Nairn, M., & Co., Ld. 89
National Federation of Clay Industries 36
New Stone & Restoration, Ld. 109
Nicoll, Dawson & Humphries, Ld. 105-108-120

O'Brian, F., & Co., Ld. 50
Oddi Asphalte 103
Olsson, M. (Fibre Boards), Ld. 24
Orlit, Ld. 109

Palmers Trav. Cradle & Scaff. Co., Ld. 104-108-110
Parkinson, E. (London), Ld. 108
Parnall & Sons, Ld. 82
Patent Glazing Conference 84
Permanite, Ld. 103-105-108
Plantire, Ld. 120
Podmore Works, Ld. 117-119
Pollock Bros. (London), Ld. 108
Previte & Co., Ld. 103

R. C. (Steel), Ld. 122
Rhodes Chains, Ld. 34
Richardson, P. C., & Co. (M'brough), Ld. 103
Rippers, Ld. 57
R.I.W. Protective Products Co., Ld. 81
Royde & Tucker, Ld. 108

Salter, Edwards & Co., Ld. 103
Saygus Scaffolders, Ld. 105
Sealocrete Products, Ld. 22
Semtex, Ld. 71
Shapland & Petter, Ld. 106
Shot Blasting & Metal Spraying Co., Ld. 119
Sieber, J., Equipment Co., Ld. 117
Simplex Con. Piles, Ld. 108
Sitefinders, Ld. 137
Site Survey Co. 134
Skinner, W. A., & Co., Ld. 105
Smith, H. V., & Co., Ld. 103
Sommerfelds, Ld. 52
Southern Asphalt, Ld. 103
Southern Lime Association 82
Specialized Surfaces, Ld. 60
Spiers, H. A., & Co., Ld. 118
Standard Range & Foundry Co., Ld. 2
Stephens & Carter, Ld. 104-107-109-119
Stevens & Adams, Ld. 1216
Stone, J., & Co. (Deptford), Ld. 102
Stubbs, J., Ld. 1215
Swinnerton, S. & J. H., Ld. 50
Symes (Plant), Ld. 120
Szerelmey 109

Taylor, J. (Syston), Ld. 118
Taylor, W. (Belmont), Ld. 121
Taylor & Low Bros., Ld. 21
Thermalite, Ld. 79
Thorn, J., & Sons, Ld. 59
Thornton, Wm., & Sons, Ld. 106
Tile Floors (Ind.), Ld. 58-91
Tomo Trading Co., Ld. 110
Topping & Leggat 104
Tradex Meter Co., Ld. 117
Tretol, Ld. 3
Trianco, Ld. 14
Turners Asbestos Cement Co., Ld. 29

Universal Asbestos Manufacturing Co., Ld. 92

Veryard & Yates 136

Wachal Flooring Co. 121
Wade Wilton, E., & Son 104
Ward, Thos. W., Ld. 77
Williams & Williams 46
Woolliscroft, G., & Sons, Ld. 56

Ziman, H., Ld. 122
Zinc Alloy Rust-Proofing Co., Ld. 137
Zinc Development Association 61

TUCK IN

The Builder Readers' Service Form

FIRST FOLD

LAST FOLD

If you would like more information regarding any of the products mentioned in this issue please tick index, detach the whole of this page, fold and post as indicated.

Postage will be paid by The Builder Ltd.

No Postage Stamp necessary if posted in Great Britain or Northern Ireland

BUSINESS REPLY SERVICE
Licence No. WC1799

THE BUILDER LIMITED,
READERS' ENQUIRY SERVICE,
4, CATHERINE STREET,
LONDON, W.C.2

SECOND FOLD

FIRST FOLD

Bilton House, Uxbridge Road, Ealing, London
Architects: Eric Firmin & Partners F/F.R.I.B.A.

H & C

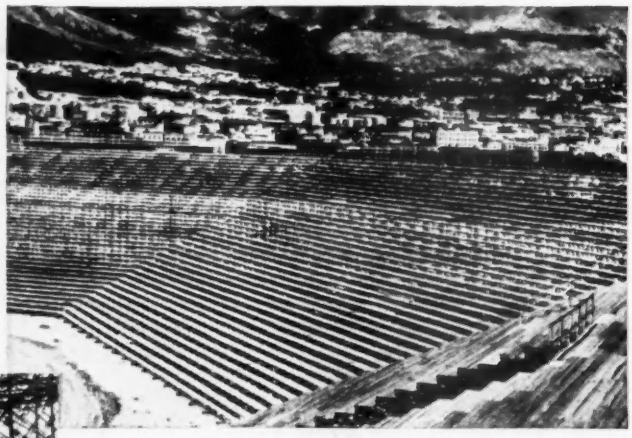
ELECTRIC PASSENGER & GOODS

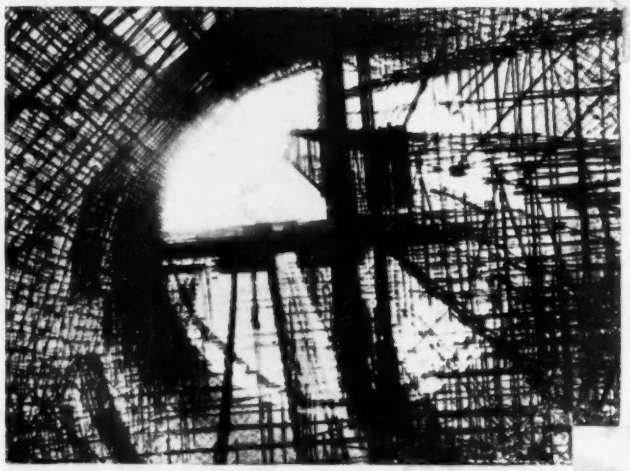
LIFTS

H&C LIFTS

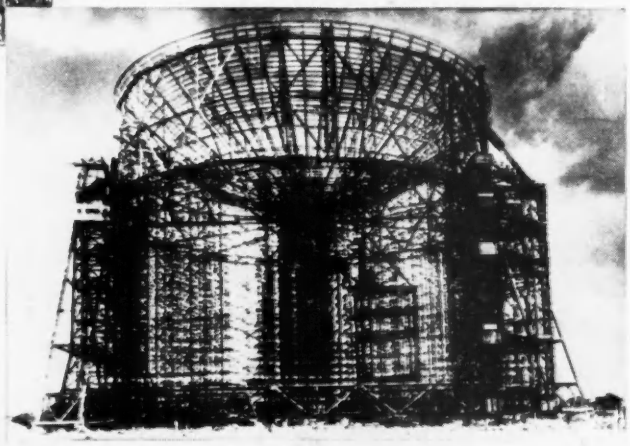
HAMMOND & CHAMPNESS LTD.
Gnome House, Blackhorse Lane,
Walthamstow, London, E.17
Telephone: LARkswood 1071

There's no limit

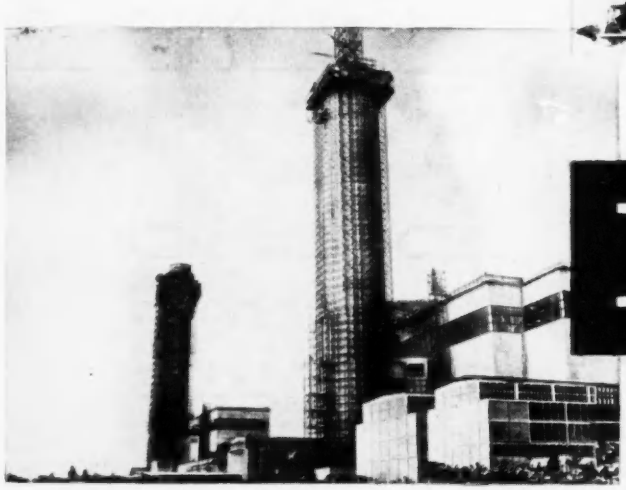




to the support



you can get from



MILLS

MILLS SCAFFOLD CO. LTD., *A subsidiary of Guest, Keen & Nettlefolds, Ltd.*, Head Office: Trussley Works, Hammersmith Grove, London W.6 (RIVerside 3011)

Published by THE BUILDER LIMITED, at the Builder House, Catherine-st., Aldwych, London, W.C.2, England.
Printed by ST. CLEMENTS PRESS LTD., 112, Queen Victoria-st., E.C.4. June 24, 1960 REGISTERED AT THE GENERAL POST OFFICE AS A NEWSPAPER